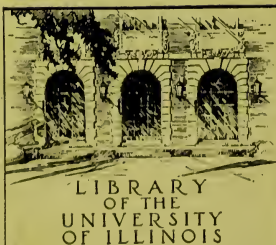


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Ripon College Bulletin

**Catalogue
1911-1912**

Bulletin, March, 1912
Series II, Number 9

RIPON, WISCONSIN

1850-1912

RIPON COLLEGE BULLETIN

Catalogue
1911-1912



Bulletin, March, 1912

SERIES II, NUMBER 9

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May 16th, 1908, as second-class mail matter,
under act of July 16th, 1904.*

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College Calendar

1912.

April	4, Spring Vacation begins 4:15 p. m.....	Thursday
April	15, Spring Vacation ends at noon.....	Monday
June	9, Baccalaureate Sermon	Sunday
June	10, Annual Meeting of the Board of Trustees....	Monday
June	11, Annual Meeting of the Alumni.....	Tuesday
June	12, Forty-sixth Annual Commencement.....	Wednesday
September 9,	10, Registration for First Semester....	Monday, Tuesday
September	11, Lectures and Recitations begin.....	Wednesday
November	27, Thanksgiving Recess begins at 4:15 p. m..	Wednesday
December	2, Thanksgiving Recess closes at noon.....	Monday
December	20, Christmas Vacation begins at 4:15 p. m.....	Friday

1913.

January	6, Christmas Vacation ends at noon.....	Monday
January	15, Registration for Second Semester.....	Wednesday
January	24, First Semester ends.....	Friday
January	27, Second Semester begins.....	Monday
March	20, Spring Vacation begins at 4:15 p. m.....	Thursday
March	31, Spring Vacation ends at noon.....	Monday
June	8, Baccalaureate Sermon	Sunday
June	9, Annual Meeting of the Board of Trustees....	Monday
June	10, Annual meeting of the Alumni.....	Tuesday
June	11, Forty-seventh Annual Commencement...	Wednesday

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Withdrawn

Board of Trustees

OFFICERS.

SILAS EVANS, President of the College, ex-officio President.

ALBERT G. FARR, Vice-President.

SAMUEL M. PEDRICK, Secretary.

WILLIAM R. DAWES, Treasurer.

HONORARY MEMBERS.

O. J. CLARK, Retired Merchant.....Ripon

GEO. L. FIELD, President First National Bank.....Ripon

F. J. LAMB, Lawyer.....Madison

TERM EXPIRES 1912.

O. H. INGRAM, Lumberman and Banker.....Eau Claire

FREDERICK W. UPHAM, President of Board of Review, Cook
County, Illinois; of Upham & Agler; of Wisconsin Oak Lum-
ber Company; and of City Fuel Company.....Chicago, Ill.

W. H. HATTON, Lumberman and Manufacturer.....New London

ALBERT G. FARR, of N. W. Harris & Company, Bankers, New
York and Boston; and of the Harris Trust and Savings
BankChicago, Ill.

D. D. SUTHERLAND, Lawyer.....Fond du Lac

WILLIAM R. DAWES, Cashier Central Trust Company of
IllinoisChicago, Ill.

TERM EXPIRES 1913.

JOHN W. WRIGHT, President Ripon Knitting Works.....Ripon

FREDERICK SPRATT, Cashier First National Bank.....Ripon

FRANK K. SANDERS, President Washburn College...Topeka, Kan.

GEORGE M. PAINE, President Paine Lumber Company....Oshkosh

ROY E. REED, Lawyer.....Ripon

JAMES L. STONE, Cashier German National Bank.....Ripon

TERM EXPIRES 1914.

WILLIAM J. STARR, Lumberman and Manufacturer.....Eau Claire

SAMUEL M. PEDRICK, Lawyer.....Ripon

A. E. THOMPSON, Lawyer.....Oshkosh

FRED W. ROGERS, Real Estate and Insurance.....Milwaukee

L. H. KELLER, Pastor Plymouth Congregat'l Church...Fond du Lac

STANDING COMMITTEES.

EXECUTIVE COMMITTEE—Messrs. Pedrick, Farr, Stone, Wright, Spratt, Reed, and Dawes.

COMMITTEE ON INSTRUCTION—Messrs. Rogers, Farr, Sanders, Starr, and Stone.

COMMITTEE ON GROUNDS AND BUILDINGS—Messrs. Reed, Stone, and Paine.

AUDITING COMMITTEE—Messrs. Hatton and Sutherland.

COMMITTEE ON INVESTMENTS—Messrs. Dawes, Pedrick, Spratt, and Wright.

COMMITTEE ON HONORARY DEGREES—Messrs. Ingram, Keller, and Thompson.

SPECIAL COMMITTEE ON FINANCE AND ENDOWMENT—Messrs. Ingram, Farr, Dawes, Starr, and Upham.

The President of the College is, ex officio, member of all committees.

Officers of Instruction

- SILAS EVANS, A. M., D. D.....309 Seward St.
 A. B., Ripon College, 1898. A. M., Princeton University, 1900;
 B. D., Princeton Seminary, 1901; D. D., Carroll College, 1911.
 Professor of Philosophy, Hastings College, 1901-03. Professor
 of Philosophy and Pastor of the College Church, Park Col-
 lege, 1903-09. Professor of Hebrew Literature, University of
 Wisconsin, 1909-10. Ripon College, 1910.
- CHARLES HENRY CHANDLER, A. M.....Smithville, N. H.
 Professor of Mathematics, Emeritus.
 A. B., Dartmouth College, 1868; A. M., Dartmouth College,
 1871. Teacher of Science at Kimball Union Academy, Meriden,
 N. H., 1868-69. Principal of St. Johnsbury (Vt.) Academy,
 1869-71. Professor of Mathematics and Physics, Antioch Col-
 lege, 1871-81. Ripon College, 1881-1906. Professor Emeritus,
 on the Carnegie Foundation.
- FRANK MORTON ERICKSON, A. M.....529 Woodside Ave.
 Dean and Wilcox Professor of Classics.
 A. B., Wabash College, 1892. A. M., University of Chicago,
 1895. Student of Archaeology, Athens, Greece, 1900. Teacher
 of Greek and Latin, Highland University, 1892-94. Member
 Graduate School, Harvard University, 1906-7. Ripon College,
 1895.
- MARY CORINTHIA HARWOOD, A. M.*.....121 Thorn St.
 Dean of Women and Professor of French and German.
 B. L., Lawrence University, 1888; A. M., Lawrence University.
 Student in France and Germany, 1891-93, 1901-2, 1904.
 Assistant Principal, Traer (Ia.) High School, 1888-90. In-
 structor in French and German, Grafton Hall, Fond du Lac,
 Wis., 1893-94. Student in France, 1907. Ripon College, 1895.
- OLIVER JONES MARSTON, A. M.....116 Scott St.
 Professor of Political Economy and Sociology.
 A. B., Greer College, 1898; A. M., Greer College, 1899. Grad-
 uate Student, Johns Hopkins University, 1898-99. Graduate
 Student, University of Wisconsin, 1899-1902. Instructor in
 History, Ripon College, 1902-3. Ripon College, 1903.
- JESSE FOX TAINTOR, A. B.*.....616 Ransom St.
 Professor of English Literature.
 A. B., Ripon College, 1873. Andover Theological Seminary,
 1875-78. Pastorates in Iowa, 1878-83; Rochester, Minn.,
 1886-1903. Graduate Student Chicago University, 1903, 1905.
 Ripon College, 1905.

* On leave of absence.

WILLIAM HARLEY BARBER, B. S., A. M.....120 Thorn St.
Professor of Physics.

B. S., University of Wisconsin, 1901; A. M., University of Wisconsin, 1909. Assistant Principal Ripon High School, 1901-4; Principal Ripon High School, 1904-5. United States Department of Commerce and Labor, Bureau of Standards, Washington, D. C., 1905-6. Graduate Student, University of Chicago, summer, 1911. Ripon College, 1906.

ALBERT FRANKLIN GILMAN, A. M.....406 Thorn St.
Professor of Chemistry.

S. B., Amherst College, 1897; A. M., Amherst College, 1901. Teacher of Science, Farmington, Me., 1897-98. Professor of Science, Dow Academy, Franconia, N. H., 1898-99. Professor of Chemistry and Physics, Maryville College (Tenn.), 1900-6. Graduate Student, Harvard University, 1903; University of Chicago, 1905-6. Ripon College, 1906.

WILLIAM JAMES MUTCH, Ph. D.....719 Watson St.
Professor of Philosophy and Education.

A. B., University of Wisconsin, 1882. B. D., Yale Divinity School, 1885. Ph. D., Yale University, 1894. Lecturer in Pedagogy, Yale Divinity School, 1900-2. Pastor of Howard Avenue Congregational Church, New Haven, Conn., 1885-1907. Ripon College, 1907.

GEORGE ADDISON TALBERT, M. S.....122 Watertown St.
Professor of Biology.

B. S., Ohio Wesleyan University, 1888; M. S., Ohio Wesleyan University, 1891. Graduate Student, Johns Hopkins University, 1888-89. Berlin University, 1898-99. University of Chicago, 1899-1900. Woods Hole Marine Laboratory summers of 1893-94-95, and Leland Stanford Marine Laboratory, summer of 1897. Teacher of Biology, 1889-1902. Stevens Point Normal School, 1902-9. Ripon College, 1908.

ELIZABETH BATTLE BINTLIFF, A. M.....234 Elm St.
Professor of Music and Director of the School of Music.

Student, Oberlin Conservatory of Music. Organ Pupil, Fenson B. Rice and Clarence Eddy. Piano Pupil, George W. Steel and William H. Sherwood. Theory Pupil, George W. Chadwick and Frederic Grant Gleason. Studios in Janesville, Wis., and Chicago, Ill. Organist, St. Paul's Episcopal Church, Milwaukee, and Leavitt Street Congregational Church, Chicago, Ill. Professor of Music and Director of Conservatory of Music, Olivet College, 1893-1909. A. M., Olivet College, 1902. Ripon College, 1909.

- EMMA GERTRUDE SIMMONS, A. M. Bartlett Cottage
Associate Professor of French and German.
A. B., University of Missouri, 1905. A. M., University of Wisconsin, 1908. Teaching Fellow, University of Wisconsin, 1906-1908. Student at the University of Paris, 1908-1909. Ripon College, 1909.
- ROBERT GRIFFIN SHERWOOD, A. M. 511 Woodside Ave.
Associate Professor of Mathematics.
A. B., Ripon College, 1908. A. M., University of Wisconsin, 1909. Ripon College, 1909.
- EGBERT RAY NICHOLS, A. M. 621 Ransom St.
Professor of English Composition and Public Speaking.
Ph. B., Franklin College, 1907; A. M., Harvard University, 1909. Professor of English, Ottawa University, Kansas, 1909-11. Ripon College, 1911.
- ALVIN LESTER BARTON, A. B. 719 Watson St.
Professor of History.
A. B., University of Chicago, 1900. Graduate Student, University of Chicago, 1906 and 1908-9. Cornell University, 1909-11. Assistant in Modern History, Cornell University, 1906-7. Instructor, Rock Island High School, 1907-8; University of Chicago High School, 1908-9. Ripon College, 1911.
- HERBERT FRENCH HANCOX, A. M. 430 Congress St.
Assistant Professor of Classics.
A. B., University of Chicago, 1910; A. M., University of Chicago, 1911. Ripon College, 1911.
- ARTHUR CHARLES HOFFMANN, Ph. B.* 122 Watertown St.
Director of Athletics.
Ph. B., University of Chicago, 1909. Ripon College, 1911.
- WILBERT LEO SMITH, A. B. West College
Acting Director of Athletics.
A. B., Ripon College, 1910.
- LOLA ZOBEL, A. B. Blossom St.
Instructor in German.
A. B., Ripon College, 1908.

* Resigned.

- ESTELLA HALL READE.....430 Congress St.
 Instructor in Vocal Music.
 Pupil of William H. Stockbridge, Portland, Me.; of Madame Perkins, Baltimore, Md.; of Dr. Edward S. Kimball, Washington, D. C.; of Benjamin F. Wood, Boston; of Mary Kimball, Washington, D. C.; and of Herman Kotschmar, Portland, Me. Contralto Soloist in Choirs in Lewiston, Portland, Baltimore, Washington, Joliet, Ill., and Olivet, Mich. Head of Vocal Department and Public School Music Methods, Conservatory of Music, Olivet College, 1897-1909. Ripon School of Music, 1909.
- JOHN NICHOLAS LOSHINSKI, A. B.....430 Congress St.
 Assistant in Biology.
 A. B., Ripon College, 1910. Graduate Student, University of Wisconsin, summer of 1910-11. Ripon College, 1910.
- JAMES ELTON IMRIE, A. B.....402 Thorn St.
 Assistant in Physics and Mathematics.
 A. B., Ripon College, 1911.
- CORA LAVERNE HOPPOUGH.....234 Elm St.
 Teacher of Piano, Theory, Musical History and Appreciation. Graduate, Conservatory of Music, Olivet College, 1900. Teacher of Piano, Greenville, Mich., 1901-2. Student of Piano with Emil Liebling, Chicago, 1902-3. Teacher of Piano and Theory, Conservatory of Music, Olivet College, 1903-1909. Student of Piano and Advanced Theory, Teacher of Ear-training, Conservatory of Music, Oberlin, 1909-10. Ripon, School of Music, 1910.
- LOUISE STANTON THOMAS.....120 E. Thorn St.
 Teacher of Violin.
 Student of Violin, with Mrs. B. F. Anderson; of Violin and Theory, with Theodore Meier, 1907-9; of Violin, with W. L. Jaffé, Milwaukee, 1909-10. Graduate Wisconsin Conservatory of Music, Milwaukee, from Violin course, 1911. School of Music, Ripon, 1910.
- FLORINE MAE WEIMER.....430 Congress St.
 Teacher of Pipe Organ and Piano.
 Graduate Ripon College School of Music from courses in Pipe Organ and Piano. School of Music, 1911.

COMMITTEES OF THE FACULTY.

CHAPEL—President Evans and Professor Mutch.

DORMITORIES—Professors Mutch, Barber, Simmons, Marston, and Harwood.

PUBLICATION—Professors Erickson, Taintor, Gilman, and Nichols.

SOCIAL LIFE—Miss Zobel, Mrs. Reade, Professors Talbert, Simmons, Hancox, and Harwood.

STUDENT SOCIETIES—Professors Simmons, Nichols, and Barton.

ALUMNI AND COMMENCEMENT—Professors Taintor, Bintliff, Sherwood, and Miss Zobel.

AID AND RECOMMENDATIONS—Professors Gilman and Mutch.

FORENSICS—Professors Nichols and Marston.

LIBRARY—Professors Talbert, Marston, and Miss Hays.

REGISTRATION—Dean Erickson and Professor Barber.

JOINT COMMITTEE ON ATHLETICS—For the Faculty: Dean Erickson, Wilbert L. Smith, Director of Athletics; for the Trustees: J. W. Wright; for the Students: Byron Rock, James Wedge.

JOINT COMMITTEE ON COMMONS—For the Faculty: Professor Marston, Dean Erickson; for the Trustees: S. M. Pedrick; for the Students: Charlotta Liebmann, Fred Herrmann.

CLASS OFFICERS.

FRESHMAN CLASS—The Dean of the College.

SOPHOMORE CLASS—Professor Talbert.

JUNIOR CLASS—Professor Gilman.

SENIOR CLASS—Professor Barber.

DEPARTMENT FELLOWS.

LABORATORY ASSISTANT IN CHEMISTRY—Ellis Llewellyn Krause.

IN BIOLOGY—Perry Sheldon Pray.

IN CHEMISTRY—Claude Henry Cragoe.

IN ECONOMICS—Alfred De Lloyd Sutherland.

IN PHILOSOPHY—Theodore Hieronymus Bast.

IN PHYSICS—William Halvor Taylor.

OFFICERS OF ADMINISTRATION.

SILAS EVANS	President
FRANK MORTON ERICKSON.....	Dean
MARY CORINTHIA HARWOOD.....	Dean of Women
WILLIAM HARLEY BARBER.....	Registrar
EMMA GERTRUDE SIMMONS.....	Head of Bartlett Cottage
FLORENCE CATHERINE HAYS.....	Librarian
ROBERT GRIFFIN SHERWOOD.....	Secretary of the Faculty
PEARL DAVISON	Cashier
ELSA GOETTMANN	Stenographer
ALICE MABEL BEARDSLEY.....	Assistant Librarian
DRUSA APPLEY.....	Matron Dining Association
HERMAN GATZKE.....	Superintendent of Grounds and Buildings

Ripon College

The institution out of which the present Ripon College grew, was incorporated January 29, 1851. Brockway College, as the first foundation was called in honor of one of its benefactors, was a development from the "Lyceum of Ripon," which was founded November 23, 1850. The original incorporators of Brockway College were David P. Mapes, Ezra L. Northrup, Alvin E. Bovay, Warren Chase, John S. Horner, Jehdeiah Bowen, Almon Osborn, Asa Kinney, Edwin Lockwood, Alexander B. Beardsley, William S. Brockway, Edward L. Runals, and William Starr.

From the time of its opening until 1855, the school was under the management of Rev. J. W. Walcott. No college classes were formed, and no college work was attempted, until the autumn of 1863. On February 21, 1857, Mr. Walcott deeded the college property to the Board of Trustees, they securing him for his claim of six thousand nine hundred and seventy-seven dollars by a mortgage on the entire realty. The deed recognized the right of the Winnebago Convention to nominate candidates to fill vacancies in the board. The campus conveyed in this exchange embraced about nine acres, which has since been considerably increased. The dormitory building, contemplated in 1855, was not ready for occupancy until the latter part of the autumn of 1858. The years from 1858 to 1862 witnessed serious struggles in the life of the young College. For a time during this period the buildings and grounds of the College were used for the purposes of the war, and many of its faculty and students saw actual service in the Union armies.

On April 23, 1863, the Rev. William E. Merriman, a graduate of Williams College, and of Union Theological Seminary, a popular preacher and an accomplished scholar, then pastor of the Presbyterian Church at Green Bay, was elected to the presidency of the College. The appointment of Mr. Merriman was an epoch in the history of the institution. The obstacles which confronted him were extraordinary, but he exhibited at once a power to overcome them, no less extraordinary. His Christian consecration and his enthusiasm were complete, not permitting him to miss any opportunity to do effective work for the College, or for intellectual and spiritual uplift among students and people. Although the institution had at this time no endowment, only one professor besides the President, and

hardly half a dozen students of college grade, yet it took its place of moral and intellectual leadership. Under the direction of the new President, the College grew rapidly and substantially, the number of students more than doubled, new buildings were added, and the College admitted to membership in the Society for the Promotion of Collegiate and Theological Education in the West. This last accomplishment was of far-reaching consequence, freeing the institution from obligations to the Winnebago Convention, and placing it on a much firmer financial basis. In addition to this, a large sum was added to the endowment; but, above all, the College, through this action, became recognized in the fraternity of colleges. In 1874, Dr. Merriman was given a leave of absence on account of ill health, and his active work as head of the College practically ended with this year. In this administration, remarkable in every sense, much was accomplished for the College in a material way; but more important than this, was the fact that under the guidance of this strong and simple man, the spirit of the institution was established.

The administration of Edward Huntington Merrell began in 1876, and continued until 1891. Doctor Merrell's connection with the College continued until his death, in 1909. From 1891 until 1906 he was the Professor of Philosophy. In 1906 he was made Professor Emeritus, on the Carnegie Foundation. Rufus Cushman Flagg, D. D., was President from 1892 to 1900. His successor in 1901 was Richard Cecil Hughes, D. D., who served the College until 1909. In September, 1910, Silas Evans, a graduate of the College in the class of 1898, was elected President.

From the beginning, the College has been under the control of a Board of Trustees, who have uniformly conducted its affairs wisely, economically and with foresight. From 1855 to 1864 the Board was served by four different secretaries: Mr. J. W. Walcott, Mr. Hiram Freeman, Mr. C. C. Bayley, and Mr. J. C. Catlin. In 1864 Storrs Hall, M. D., was made Secretary, and served faithfully and efficiently until 1899. At that date Mr. Samuel M. Pedrick was elected to the office, which he still holds.

The Board has been equally fortunate in its Treasurers. Mr. Jehdeiah Bowen was twice Treasurer, between the years 1851 and 1861, and again from 1865 to 1882. The Treasurer from 1861 to 1865 was Mr. Charles F. Hammond. Mr. A. P. Harwood was elected in 1882, and served until 1883. Mr. J. A. Chamberlain served from 1883-84. Mr. Harwood was again elected in 1884, and served until 1886. In that year Mr. Joseph

Scribner was made Treasurer, and held the office until 1899, when Mr. S. M. Pedrick was elected. Mr. Pedrick was followed in 1905 by Mr. George L. Field, President of the First National Bank of Ripon. From 1876 to 1886 Mr. George C. Duffie, as Assistant Treasurer, had the care of the books, and the responsibilities of Treasurer fell largely upon him. From 1905 to 1907 Mr. Frederick Spratt, as Assistant Treasurer, gave constant attention to the accounts and to the financial affairs of the College. Mr. Albert G. Farr, Vice-President of The Harris Trust and Savings Bank, Chicago, was elected Treasurer in 1907, and continued in that office until June, 1910, when the present Treasurer, Mr. William R. Dawes, of Chicago, Cashier of The Central Trust Company of Illinois, was elected.

Requirements for Admission

GENERAL REQUIREMENTS.

A candidate for admission who offers credentials from a recognized school showing that he has completed the requirements for entrance as given below, will be admitted provisionally to the freshman class. Those who do not offer credentials, will be examined upon the work required for entrance. Whether a student enters by certificate or by examination, he is not given full standing until he has shown, by doing satisfactory work, that he is able to pursue a college course with profit.

All candidates for admission to the College must present satisfactory evidence of good moral character. Those coming from other colleges must present letters of honorable dismissal.

This College concurs fully in the report adopted by the National Educational Association on the articulation of high school and college. The following regulations governing entrance to college are substantially those of the report.

Entrance requirements are expressed in terms of units. A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work. This definition assumes that the length of the school year is from thirty-six to forty weeks, that a period is from forty to sixty minutes in length, and that the study is pursued for four or five periods per week. It further assumes that two hours of manual training or laboratory work is equivalent to one hour of class-room work. Fifteen such units are required for entrance.

Of the total fifteen units, not less than eleven units should consist of English, foreign language, mathematics, social science (including history), natural science, or other work conducted by recitations and home study.

The other four units may be additional academic work or work in mechanic arts, household science, commercial work or any other kind of work that the best interests of the student appear to require.

The following eight units are required of all:

English, 2 units; Mathematics, 2 units; Latin, German or French, 2 units; History, 1 unit; Science, 1 unit.

It is recommended that the high school course be planned so as to include two majors of three units each and one minor of two units. One of the majors should be English.

The provisions of the foregoing definition may be summarized as follows:

Nine specified units.

3 units of English. (Two units will be accepted.)

2 units of one foreign language.

2 units of mathematics.

1 unit of social science, including history.

1 unit of natural science.

Two additional academic units.

One or both of these units must be advanced work to meet the requirement of a second major of three units.

Four units left as a margin for whatever work best meets the needs of the individual.

Admission Without Foreign Language.—Students who offer fifteen units for entrance may be admitted without foreign language, but the language requirements must be met during the freshman year. This will ordinarily require extra work to the extent of four hours a week for one year, which will not be credited as part of the number of unit hours required for graduation.

DETAILS OF SUBJECTS.

English. 2, 3 or 4 units. All candidates for admission to the College must present two units in English, one of which should consist of composition, and one of the reading and study of English classics. The two units required in English correspond in amount and character to the work of the first two years of the standard high school course. It is recommended that at least three units be presented in English, the third unit to consist of additional work in composition, and either (1) of the reading and study of representative selections from English and American Literature or (2) detailed study of a few typical examples of the novel, the drama, the lyric, and the essay.

Preparation in English should have two main objects: (1) command of correct and clear English, spoken and written; (2) power to read with intelligence and appreciation. To secure the first end, training in grammar and in the simpler principles of rhetoric, and the writing of frequent compositions, are essential. The candidate must be able to spell, capitalize

and punctuate with accuracy. He must show a practical knowledge of the essentials of English grammar, of the construction of the sentence, and of the simpler principles of paragraph division and structure. To secure the second end, the candidate is required to read the works prescribed by the Commission of New England Colleges and Secondary Schools. The student should read the books with a view to understanding and enjoying them, and should secure a reasonable degree of familiarity with their substance.

Greek. 2 units. Xenophon's *Anabasis*, four books; Homer's *Iliad*, three books, or an equivalent amount of the *Odyssey*; Greek composition.

Latin. 2, 3 or 4 units. If two units, they must be as follows: Caesar, four books, or Caesar, two books, and an equivalent to two books in selections from Caesar or Nepos. If two units additional are presented, they must include: Elementary Latin, with the addition of six orations of Cicero (selections from the letters may be substituted for two orations); Virgil, six books; Composition, preferably in connection with Caesar and Cicero.

German. 2, 3 or 4 units. German may be offered for entrance to the amount of two, three or four units, requiring respectively two, three or four years of high school study. A candidate who presents elementary German (2 units) should be able to pronounce and to translate at sight, into idiomatic English, simple German prose, to put easy English sentences into German, and to carry on a simple conversation in German, based upon the texts set for translation. If three or four units of German are offered, a proportionate amount must be presented.

French. 2, 3 or 4 units. French may be offered for entrance to the amount of two, three or four units, requiring respectively two, three or four years of high school study. A candidate who presents elementary French (2 units) should have a thorough knowledge of the grammatical forms of the language, and possess a sufficient vocabulary to read simple French with ease. If three or four units of French are offered, a proportionate amount must have been completed.

History. 1, 2, 3 or 4 units may be presented from the following subjects:

Ancient History to the year 800 A. D., 1 unit.

Mediaeval History, 1 unit.

English History, 1 unit.

United States History, 1 unit.

In Civics, Commercial Law, Economics, and Commercial Geography, a half unit may be offered for each subject, provided it represents a substantial course.

Mathematics. The work in Mathematics includes: Elementary Algebra, one unit; Geometry, plane and solid, one unit. Additional credit to the amount of one-half unit will be given for Advanced Algebra. This is required of students who wish to take the course in pre-engineering as outlined on page 33.

The unit of Elementary Algebra should include the following subjects: Fundamental operations, equations of the first degree with one unknown number, simultaneous equations of the first degree, factors, highest common factor, lowest common multiple, quadratic equations, simultaneous equations above the first degree, elementary theory of indices, and radicals.

In Geometry the requirements should indicate a combined course of one year in plane and solid geometry, and should consist of a sufficient number of propositions in solid Geometry.

If an additional half year of algebra is presented for admission, the work should cover simultaneous quadratic equations; ratio, proportion and variation, including graphical representation of simple relations between two variables; binominal theorem for positive integral exponents; logarithms, including use of tables in simple numerical work.

Physics. 1 unit. A year's course, including continuous and systematic laboratory practice. Any standard text-book may be used.

Chemistry. 1 unit. A year's course of descriptive chemistry, including both class-room and laboratory work. The student should keep a careful record of the experiments performed.

Botany. 1 unit. The course should cover a study of the life histories of types from the main groups of plants, and should include also a series of simple experiments.

One unit will be accepted in Physical Geography and in Zoology, provided it represents thorough systematic work of high school grade. A half unit also may be offered in Physiology.

ADMISSION BY CERTIFICATE.

On the recommendation of the principal of the high school, with his certificate showing that the student has successfully completed the courses required for entrance, graduates of any Wisconsin high school, on the accredited list, will be admitted to the freshman class without examination.

The list of accredited schools from which students will be admitted to the College on the certificate of the principal of the school, is the same as that of the University of Wisconsin. The regulations concerning the accredited schools also are the same as those in force at the University. Further information concerning these schools will be furnished on application.

The certificates as to the work done in the high school should be made out on blanks which will be furnished on application, by the Dean of the College. They should be forwarded to the Dean, before the opening of the college year. Students will not be registered until the certificate is presented.

Certificates issued by the state normal schools, or by recognized academies of the state, will be accepted for the entrance requirements in the subjects covered by such certificates.

NORMAL SCHOOL GRADUATES.

Graduates from the state normal schools who were graduated previously from a four-year high school course admitting to the college, will be given the degree of Bachelor of Arts on the completion of the major subjects as described on page 22, and of those required subjects for which no equivalent has been taken at the normal school. The time required to complete this course will depend somewhat on the subjects taken previously. By taking some extra work, it may, in most cases, be completed in two years of residence.

RIPON COLLEGE AND THE STATE UNIVERSITY.

Ripon College and the University of Wisconsin have practically the same entrance requirements and the same list of accredited schools. Students who migrate from either institution to the other will be given the rank of sophomores or juniors, if they change at the end of the first or second year of their work. It is not deemed advisable by either institution, for students to migrate at the end of the junior year; but where such cases occur, they will be dealt with on their individual merits.

The following statements from the catalogue of the University will indicate the arrangement between the University and the Wisconsin Colleges: "By arrangement with Beloit College, Lawrence College, Ripon College, Carroll College, and Marquette University, students of these institutions who have satisfactorily completed the work of the sophomore year will be admitted to junior rank in the College of Letters and Science. In case of migration at an earlier period than the end of the sophomore year, proportional credit will be given. Students who complete two years of work at Beloit, Lawrence and Ripon, will be admitted to the College of Engineering of the University of Wisconsin, on the same conditions as students who transfer to that college from the College of Letters and Science of the University of Wisconsin."

Requirements for Graduation

The requirement for graduation is one hundred and twenty (120) semester hours of credit in college courses and a satisfactory thesis on an approved topic connected with the major subject, or one hundred and twenty-four (124) semester hours of credit without thesis. The unit of measure, a semester hour, is one hour recitation or lecture, or one two-hour laboratory period per week for one semester. A course which meets four hours per week for one semester gives four (4) hours' credit. Regular work is fifteen hours per week.

SELECTION OF STUDIES.

In the selection and arrangement of studies, the student has considerable freedom, but his choice is in part limited by the following general requirements.

Freshman Year.

The regular work of the freshman year is four subjects, each continued through the year. English is required of all, and at least one subject must be chosen from each of the following groups. The fourth subject may be taken from either group.

I.
Latin
Greek
French
German

II.
Mathematics
Chemistry
Biology
History

Sophomore Year.

In the sophomore year any of the subjects open to freshmen may be elected, and any of the required subjects not already completed should be included in the selection. Other electives open to sophomores are the following:

Latin
Greek
French
German
English Composition
English Literature
Archaeology

Philosophy
History
Economics
Mathematics
Chemistry
Biology
Physics

Junior and Senior Years.

By the time the student has reached the junior year, he is ready to select a subject in which to do advanced, cumulative work. This subject is called the student's major subject, and

must include at least twenty hours' work in one of the following departments: Philosophy, Education, Greek, Latin, French, German, English, History, Economics, Mathematics, Biology, Chemistry or Physics.

Required subjects, or those of an elementary character such as Latin A or German A, will not be counted toward the major subject; and not more than twenty-eight hours of work in any one department, exclusive of the freshman course, will be counted toward a degree.

To secure breadth of training, the courses of study offered by the departments of the College have been arranged in four groups. The major subject will lie in one of these groups. In each of the other three, the student must select a minor or year course of at least eight hours' credit in one department. These minors are in addition to the courses required of all students.

The four groups from which the student selects his major and three minor subjects are as follows:

I.	II.	III.	IV.
Greek	Biology	History	Philosophy
Latin	Chemistry	Economics	Mathematics
German	Physics	Political Science	
French		Education	
English			
Music			
Archaeology			

The subjects required of all students are the following: English, course 1, and Foreign Language, two courses of one year each. Students who have had less than four years of foreign languages for entrance, will be required to complete an additional year course in the College.

The requirements for graduation may be summed up as follows:

English 1.

Two courses of one year each in foreign language (three courses if less than four units of foreign language were offered for entrance).

A year course in each of four groups of studies and an additional amount of work in one of these four subjects to constitute the major subject.

Free election to make the total of one hundred and twenty hours required for graduation, or one hundred and twenty-four hours without thesis.

HONOR CREDITS.

In addition to the 120-hour credits necessary for graduation, each student must earn at least 31 honor credits, or an average mark in all subjects of C or higher.

Class standings are indicated by letters. A, B, C and D are passing grades. For a grade of A in a given course, the student will receive as many honor credits as there are hour credits in the course, less one; for a grade of B, as many honor credits as hour credits, less two; for a grade of C, as many honor credits as hour credits, less three. For example: A four-hour course in which the student's mark is A, gives three honor credits; if the grade is B, two honor credits; and if C, one honor credit.

As a special adjustment in putting the honor credit system into operation, the class of 1912 will be required to secure 6 honor credits; the class of 1913, 14 honor credits; the class of 1914, 22 honor credits.

GENERAL REGULATION GOVERNING REGISTRATION.

Monday and Tuesday, September 9 and 10, are registration days. The registration office is open from nine till twelve and from one-thirty till five, and all students are expected to register at that time. For registration after this date, or for change of registration, a fee of one dollar is charged. After three weeks of a semester have passed, no change in registration can be made without the consent of the Registration Committee, and a study which is dropped without the consent of this Committee is recorded as a failure.

No credit is given for any work not regularly registered in advance. Application for advance credit for work taken before entering the College must be made within one year of the time of entrance.

All entrance conditions must be included in the work of the first year.

Regular work in the Freshman year is 15 semester hours per week or 4 courses, which in some courses may amount to 16 hours. For all other students, the regular work is 15 to 18 hours. More work than this may be taken only on consent of the Curriculum Committee, and this consent is given only when the student has maintained an average of C in the last semester, and is not falling below D in any subject.

New students will go first to the Dean of the College, who will assign them to faculty advisers. The registration form is

made out after consultation with the adviser, and must bear his signature when it is filed with the Registrar. The registration form for succeeding years must be approved by this same faculty adviser, until the student selects his major subject. The professor in charge of this department then becomes his adviser.

THE GROUP SYSTEM.

The group system readily adapts itself to the individual, by permitting a wide latitude in the choice of studies. At the same time, the importance of making a careful choice, under the best advice, cannot be emphasized too strongly. As some courses are given only on alternate years, and because of possible conflicts in the hours of recitation, the general plan of the student's work for the remainder of the course should be made by the beginning of the sophomore year. Moreover, the course should be planned as a whole with a definite end in view; and, when once planned, the student should not allow himself to be diverted from it for any but the most serious reasons.

The following courses illustrate the working of the group system, and will guide the student in arranging his own work.

PHILOSOPHY.

This is a conservative course for the purpose of classical culture, drawn upon lines approved by the longest experience of American colleges. By a judicious use of the elective privilege, a fair balance can be preserved between the humanistic and the scientific disciplines for the purposes of culture and professional life.

The course serves also as a pre-theological course, when electives are chosen with this in view. It is possible for graduates of good rank to secure one year of advanced credit in leading theological seminaries, upon recommendation of the faculty. This course presupposes at least four language units of entrance credit. It must include at least one year of a laboratory science, and two are recommended.

First Year.

English 1, four hours; Greek A, four hours; Latin 1-2, four hours. One elective.

Second Year.

First semester. Philosophy 1, Method of Nature, four hours; German 1, four hours; English Composition 2, three hours. One elective. Second semester. Greek 8, Ancient Philosophy, three hours; German 2, four hours; English Composition 2, three hours. Elective.

Third Year.

First semester. Philosophy 2, Philosophy of Culture, four hours; Philosophy 13, Logic, two hours; History, four hours. Electives. Second semester. Philosophy 4, Reality and Knowledge, four hours; Education 10, Psychology, four hours; History, four hours. Electives.

Fourth Year.

First semester. Education 1, Philosophy of Education, four hours. Electives. Second semester. Philosophy 3, Types of Modern Thought, four hours. Electives.

In choosing electives, preference should be given to the following subjects in about the order named:

Science, one required; English, advanced courses; Language, second year in each; Bible; Economics; Education.

LANGUAGE-LITERATURE.

Many combinations of language and literature courses are possible, varying with the special interest of the student, whether it is in the Ancient Classics, French, German or English. One such group, typical of them all, is given below. The course outlined, covers with some completeness the literature, history, and civilization of Europe.

First Year.

English 1 a and b, four hours; Greek or Latin, four hours; French or German, four hours; Science, four hours.

Second Year.

First semester. English Composition or Literature, three hours; Greek or Latin, three hours; French or German, three hours; History 6, four hours; Philosophy 1, four hours. Second semester. English Composition or Literature, three hours; Greek or Latin, three hours; French or German, three hours; History 8, four hours; Archaeology 1b, two hours.

Third Year.

First semester. English, three hours; Greek or Latin, or French or German, three hours; Archaeology 1; Major subject, three to five hours. Elective. Second semester. English, three hours; Greek or Latin, or French or German, three hours; Major subject, three to five hours; Psychology, four hours.

Fourth Year.

First semester. English, three hours; Greek or Latin, or French or German, three hours; Major subject, three to five hours; Education, four hours; Classical Literature 7, three hours. Second semester. English, three hours; Greek or Latin, or French or German, three hours; Major subject, three to five hours; Education, four hours. Electives.

HISTORY-ECONOMICS.**First Year.**

First semester. Ancient or Mediaeval History, four hours; English 1, four hours; Foreign Language, four hours; Mathematics 1, three hours. Second semester. Ancient or Modern History, four hours; English 1, four hours; Foreign Language, four hours; Mathematics 2, three hours.

Second Year.

First semester. Mediaeval or Ancient History, four hours; English, three hours; Foreign Language, three hours; Economics, four hours. Second semester. Modern or Ancient History, four hours; English, three hours; Foreign Language, four hours; Economics as offered, four hours.

Third Year.

First semester. English Political and Constitutional History, four hours; United States History, four hours; Physics 1, five hours; Political Science, four hours. Second semester. English Political and Constitutional History, four hours; United States History as offered, four hours; Science. Elective.

Fourth Year.

First semester. Economics as offered; Advance English Composition; History. Elective. Second semester. Economics as offered; Advance English Composition; History. Elective.

MATHEMATICS-PHYSICS.

The Mathematics-Physics course is arranged to present not only a thorough and continuous study of mathematics and physics, but also a broad and liberal outline of collegiate work. In this respect the course is well adapted to students who are desirous of becoming teachers in these subjects, or are contemplating graduate work, and also conforms to the needs of those who want the course, wholly as a matter of general training.

First Year.

First semester. Chemistry; German or French; English; Algebra. Second semester. Chemistry; German or French; English; Trigonometry.

Second Year.

First semester. Analytic Geometry; Differential Calculus; Physics; German or French; Advanced English Composition. Second semester. Analytic Geometry; Integral Calculus; Physics; German or French; English Literature.

Third Year.

First semester. Advanced Calculus; Light; Economics or History; Elective: Quantitative Chemistry or Biology. Second semester. Differential Equations; Heat; History or Economics; Elective: Chemistry or Biology.

Fourth Year.

First semester. Mechanics; Physics; Psychology; Electives: Philosophy, Education. Second semester. Mechanics; Physics; Logic and Metaphysics; Education.

TRAINING FOR PROFESSIONAL COURSES.

The following courses are arranged to give specific preparation for professional study. It should be noted, however, that each is a well-rounded course of study, and meets the college requirements for the degree of Bachelor of Arts.

PREPARATION FOR TEACHING.

The course outlined for the preparation of teachers is intended to give the broadest and most complete training for high school teaching, consistent with a college course. There are three qualifications about equally essential for a successful

teacher, namely: general culture and intelligence, mastery of the subject, and skill in the theory and art of teaching. The course provides for all three of these requirements. Its chief merit lies in the scope and thoroughness of the courses in Education.

No one is recommended as a teacher who has not completed a college course, and earned a bachelor's degree. This course must contain Psychology, and at least one full year of the regular work in Education. It is strongly recommended that all the courses be taken.

The department of Education offers four standard four-hour courses, covering two years, and dealing in a thorough manner with the History and Philosophy of Education, with educative values and the fundamental principles governing method, with the special problems of teaching, management, and constructive ideals of life. Instruction is given in training young people to study and manage their own mental operations, to use libraries and reference books, and to get the right attitude toward life.

The several departments in Ripon College offer Courses for Teachers of those subjects, in which reviews of the elementary matter are given, with special reference to teaching it in high schools.

Systematic and critical observation of high schools in actual operation is a regular part of each year's work. There is also considerable opportunity for getting valuable experience in the actual work of a teacher, through the appointment of fellows and substitute teachers.

To worthy students who have taken these training courses, assistance is given, during the senior year, that they may secure good positions. The efforts of the faculty in this direction have been very successful. School men, understanding the character of the work done and the method of recommendation, are constantly writing for candidates. While no guarantee can be made, it is safe to say that every student who proves worthy, and desires a position, will secure one.

PREPARATION FOR THEOLOGY.

The College offers all the courses usually taken in preparation for the study of theology. The course outlined under the head of Philosophy, with suitable electives chosen under the direction of the head of that department, meets the approval of most theological seminaries.

PREPARATION FOR LAW.

Students entering the profession of Law, are urged to complete a full four-year course in college. The following course meets the requirements for a bachelor's degree, and at the same time outlines what is believed to be best adapted to meet the needs of law students.

First Year.

First semester. Algebra, three hours; English, four hours; Latin, German, or Spanish, four hours; Mediaeval History, four hours. Second semester. Trigonometry, three hours; English, four hours; Latin, German, or Spanish, four hours; Modern History, four hours.

Second Year.

First semester. English Composition, three hours; Latin, German, or Spanish, three hours; English Political and Constitutional History, four hours; Economics 1, four hours; General Chemistry, four hours. Second semester. Exposition, three hours; Latin, German, or Spanish, three hours; English Political and Constitutional History, four hours; Economics as offered, four hours; Science, four hours.

Third Year.

First semester. Physics, five hours; Latin, German, or Spanish, three hours; U. S. History 1, four hours; Economics as offered, six hours. Second semester. Literary History of America, three hours; Latin, German, or Spanish, three hours; U. S. History as offered, four hours; Economics as offered, six hours.

Fourth Year.

First semester. Debating, three hours; U. S. History as offered, four hours; Political Science, four hours; Economic Seminar, two hours; Advanced Composition, three hours. Second semester. International Law, four hours; U. S. History as offered, four hours; Economics as offered, six hours; Advanced Composition, three hours.

PREPARATION FOR BUSINESS OR PUBLIC SERVICE.

Students desiring to prepare for a business career, or wishing to enter certain branches of the public service, will find that the requirements for a bachelor's degree permit them to devote to separate study in the departments of History and

Economics, nearly the whole of the third and fourth years, and also some time in the first and second years.

The following courses are suggested for such students:

First Year.

First semester. Algebra, three hours; English 1, four hours; German or French, four hours; English Political and Constitutional History, four hours. Second semester. Trigonometry, three hours; English 1, four hours; German or French, four hours; English Political and Constitutional History, four hours.

Second Year.

First semester. German or French, three hours; Science, four hours; English Composition, three hours; Economics 1, four hours; Nineteenth Century History, four hours. Second semester. German or French, three hours; Comparative Anatomy of Vertebrates, four hours; Economics as offered, four hours; U. S. History as offered, four hours; Elective, three hours.

Third Year.

First semester. Physics, five hours; Spanish, four hours; U. S. History as offered, four hours; Economics as offered, six hours. Second semester. International Law, four hours; Spanish, four hours; U. S. History as offered, four hours; Economics as offered, six hours.

Fourth Year.

First semester. U. S. History as offered, four hours; Economic Seminar, two hours; Political Science 1, four hours; Elective, four hours. Second semester. U. S. History as offered, four hours; Economics as offered, six hours; Elective, four hours.

PREPARATION FOR FOREIGN SERVICE.

Students desiring to enter the consular or other foreign service, will find in the departments of Modern Language, Economics, and History, courses which will best prepare them for such work. The requirements for a bachelor's degree permit the student to devote to study in these departments a considerable proportion of his time.

The student is advised to acquire a good reading knowledge of two modern languages, besides English; at least the elements of two sciences; and as special a knowledge of the

history and economic conditions of his own country as time will permit. The required reading, as far as possible, will be along the line of the resources, commerce, and government of the United States; trade statistics; commercial and political geography; international, commercial, and maritime law.

The following courses are suggested for such students:

First Year.

First semester. Algebra, three hours; English 1, four hours; French or German, four hours; Mediaeval History, four hours. Second semester. Trigonometry, three hours; English 1, four hours; French or German, four hours; Modern History, four hours.

Second Year.

First semester. German or French, three hours; Elective, three hours; U. S. History 1, four hours; Nineteenth Century History, four hours; Economics 1, four hours. Second semester. German or French, three hours; Elective, three hours; Science, four hours; Economics as offered, four hours.

Third Year.

First semester. U. S. History as offered, four hours; Economics as offered, six hours; Physics, or other science, four or five hours; German or French, three hours. Second semester. U. S. History as offered, four hours; Economics as offered, six hours; International Law, four hours; German or French, three hours.

Fourth Year.

First semester. U. S. History as offered, four hours; Economics as offered, two hours; Spanish, four hours; Political Science, four hours. Second semester. U. S. History as offered, four hours; Economics as offered, six hours; Spanish, four hours.

PREPARATION FOR MEDICINE.

This course is designed to give a broad education in the principal natural sciences preparatory to the study of medicine. Four years of work are offered in both Biology and Chemistry. One of the two subjects is usually begun in the freshman year, and the other in the sophomore.

First Year.

First semester. General Chemistry or Biology, four hours; English, four hours; Mathematics, three hours; German or Latin, four hours. Second semester. Qualitative Analysis or Biology, four hours; English, four hours; Mathematics, three hours; German or Latin, four hours.

Second Year.

First semester. Biology of Invertebrates, four hours; Quantitative Analysis, four hours; German or Latin, three hours; Electives: History or English. Second semester. Biology of Vertebrates, four hours; Volumetric Analysis, four hours; German or Latin, three hours; Electives: History or English.

Third Year.

First semester. Organic Chemistry, five hours; Histology, four hours; Physics, five hours; Electives: Philosophy, Latin or Greek, French. Second semester. Organic Chemistry; Embryology; Physics, five hours; Electives: Philosophy, Latin or Greek, French.

Fourth Year.

First semester. Physiological Chemistry; Physiology, four hours; Psychology, three hours; Electives: Latin or Greek, French, History. Second semester. Bacteriology, five hours; Botany, three hours; Electives: Latin or Greek, French, Economics, Industrial Chemistry.

PREPARATION FOR ENGINEERING.

The Pre-Engineering Group is intended to meet the needs of those students who wish to secure a thoroughgoing foundation for advanced study in engineering. It is hoped, therefore, that after graduation most of those who pursue this group of studies will desire to carry on their work at the University of Wisconsin or elsewhere. The agreement below has consequently been entered into by the University and Ripon College.

1. Graduates of Ripon College, who have followed the course outlined as the Pre-Engineering Group of studies, will be graduated from the various engineering courses leading to the degree of Bachelor of Science in two additional years; provided that students in civil engineering can make arrange-

ments to complete the sophomore surveying before entering the University. (This may be done in the University Summer School.)

2. Graduates who have pursued the studies of this group, will be graduated from the advanced engineering course leading to the professional degree in two years and two summer sessions at the University, with the provision concerning students in civil engineering above noted.

Note. The course as outlined, gives eighteen hours' work per week for freshmen, while the regular work is but fifteen hours. This course may be made to conform to the general plan, by deferring the course in Mechanical Drawing until the sophomore year. The student who undertakes eighteen hours' work, will be required to comply fully with the honor credit rule, or reduce the amount of work.

First Year.

First semester. English, four hours; German or French, four hours; Chemistry, four hours; Algebra, three hours; Mechanical Drawing, three hours. Second semester. English, four hours; German or French, four hours; Chemistry, four hours; Trigonometry, three hours; Mechanical Drawing, three hours.

Second Year.

First semester. Analytical Geometry, two hours; Differential Calculus, three hours; General Physics, five hours; ¹Quantitative Analysis, four hours; Descriptive Geometry, three hours; Electives: French or German, three hours; Composition, three hours; English Literature, three hours. Second Semester. Analytical Geometry, two hours; Integral Calculus, three hours; General Physics, five hours; Surveying, four hours; Descriptive Geometry, three hours; ¹Analytical Chemistry, four hours; Electives: German or French, three hours; English Composition, three hours.

Third Year.

First semester. Advanced Calculus, three hours; ²Surveying; ⁴Organic Chemistry, five hours; Electives: Biology, four hours; Economics, four hours. Second semester. ³Differential Equations, three hours; ³Heat, four hours; ⁴Physical Chemistry, three hours; Electives: ⁴Botany, three hours; Economics, four hours.

Fourth Year.

First semester. Theoretical Mechanics, three hours; ⁵Geology, three hours; ⁴Bacteriology, five hours; ³Electricity, five hours; Electives: History, four hours; Advanced Chemistry, four hours; Philosophy, four hours. Second semester. Theoretical Mechanics, three hours; ⁵Mineralogy, four hours; ³Electrical Measurements, two hours; Electives: History, four hours; Philosophy, four hours.

1 Required of Chemical, Sanitary, Electrical, Mining and Electrochemical Engineers.

2 Required of Civil and Sanitary Engineers.

3 Required of Civil, Mechanical and Electrical Engineers.

4 Required of Chemical and Sanitary Engineers.

5 Required of Mining and Sanitary Engineers.

First Semester, 1912-13.

[illegible]

One O'Clock	Biology 9	M		F		
	English 1a	M		Th		
	English 1a		T		F	
	English 1b	M		Th		
	English 1b		T		F	
	German 7		T	Th		
	Greek 9		T	Th		
Two O'Clock	History 1	M	T	Th	F	
	Archaeology 3		T	Th		
	Economics 1	M	T	Th	F	
	French 7	M	T	Th		
	German 1	M	T	Th	F	
	Greek 1	M	T	Th	F	
	History 1	M	T	Th	F	
Three O'Clock	Mathematics 3		T	Th	F	
	Mathematics 7	M	T			
	Bible 9		T	Th	F	
	Biology 1	M		Th		
	Chemistry 5		T	Th	F	
	English 12a	M				
	German 3	M	T	Th		
Laboratory hours for advanced courses in Biology, Chemistry, Physics, M., T., Th., F., 1 to 3; Saturday, 8 to 12.	History 13		T		F	
	Mathematics 3		T	Th	F	
	Mathematics 7		T			
	Physics 8		T			
	Philosophy 13		T	Th		
	Public Speaking 10		T		F	
	History 17	M		Th		

Second Semester, 1912-13.

Eight O'Clock	Education 8		T	W	Th	F
	Composition 4	M		W		
	English 6			W	Th	F
	French 6	M		W		F
	Latin 4	M		W		F
	Mathematics 2	M		W		F
Nine O'Clock	Composition 3		T		Th	
	French 4	M		W		F
	French 10		T		Th	
	Greek 4		T	W		F
	History 7b	M	T		Th	F
	Latin 12		M		W	
	Mathematics 2	M		W		F
	Philosophy 3		T	W	Th	F
	Physics 2		T		Th	
	Public Speak'g 8	M		W		
Laboratory hours, 8 to 10 A. M.	Biology 3	M			F	
	Biology 2			W		S
	Biology 9		T		Th	
	Chemistry 2a	M			F	
Physics 2	Chemistry 2b		T		Th	
	Physics 2	M		W		F

Ten O'Clock	Biology 10	M	T	W	F	French 2	M	T	W	F
	Chemistry 2				Th	Latin A	M	T	W	F S
	Chemistry 10	M		W		Latin 8	M	T		Th
	German A	M	T	W	F	Mathematics 9	M		W	F
	Greek A	M	T	W	F	Mathematics 8		T		Th
	English 3b			W	Th F	Psychology 10		T	W	Th F

Eleven O'Clock	Archaeology 3		T		Th	German 6	M		W	F
	Biology 5	M		W		History 8	M	T	W	Th
	Biology 8		T		Th	Latin 2	M	T	W	Th
	Chemistry 2				F	Latin 12		T		Th
	Chemistry 4		T		Th	Physics 4		T		Th
	Chemistry 12	M		W		Physics 11	M		W	F
	English 9	M	T	W		Mathematics 19	M		W	F
	German 2	M	T	W	Th					

One O'Clock	English 1a	M			Th
	English 1a		T		F
	English 1b	M			Th
	English 1b		T		F
	German 8		T		Th
	Greek 9		T		Th
	History 19	M	T		Th F

Laboratory hours for advanced courses in Biology, Chemistry, Physics, M., T., Th., F., 1 to 3; Saturday, 8 to 12.

Two O'Clock	Archaeology 4		T		Th
	Economics 7	M	T		Th F
	French 8	M	T		Th
	German 2	M	T		Th F
	Greek 2	M	T		Th F
	History 12	M	T		Th F
	Mathematics 3		T		Th F
	Mathematics 7		T		

Three O'Clock	Bible 2	M	T		Th	History 15	M		Th
	Biology 3		T		F	History 13		T	F
	Biology 2	M				Mathematics 3		T	Th F
	English 2	M	T			Physics 8		T	
	English 12b	M				Public Speaking 10		T	F
	German 4	M	T		Th				

Description of Courses

BIBLE AND RELIGION.

Professor Evans.

Professor Mutch.

These courses are pursued with the same exacting requirements of scholarly work as any other course. The Bible is taught with reverent scholarship, and a knowledge of the Bible is considered as an essential element of culture and a practical requisite of life. The courses are given by four men who are especially interested and qualified in their own subject-matter and point of view.

Professor Evans.

1. **Theism.** In this course the student is led to an appreciation of that system of philosophy which finds its first principle in a Personal God. Open to juniors and seniors. Lectures, Class Discussions, Readings.

First semester. Three hours. (Omitted in 1911-12.)

2. **The Messages of Hebrew Prophecy.** This vital literature will be studied in its historical and sociological aspects.

Second semester. Three hours. M., T., Th., 3:15.

3. **The Life and Letters of the Apostle Paul.** The biography of this great Christian Missionary will be carefully studied from the Book of Acts, and his writings studied in their proper settings, with a view to a perspective of his underlying truths.

Second semester. Three hours. (Omitted in 1912-13.)

The two courses above will be given in alternate years.

Professor Mutch.

9. **Jesus the Teacher.** A study of the gospels. First, for the content, and second, for the method of Jesus' teaching. The course is useful for all teachers, whether in the public schools or the church schools, besides giving an interpretation of the personality and teaching of Jesus Christ.

First semester. Three hours. T., Th., F., 3:15.

10. Problems of Religion. A study of the nature and origin of religious phenomena and experience; religious education, institutions and ideals of religion, and the religious aspect of modern life.

First semester. Three hours. (Omitted in 1912-13.)

12. Hebrew Histories. An intensive study of the Books of Samuel, affording a key to the right understanding of the Old Testament, and a practice in the right method of Bible study, followed by a more rapid survey of the later Hebrew history.

Through the year. One hour. Sunday, 9:15.

The following courses by Professor Mutch are given in other years, at the same hour:

The Teaching of Jesus.

First Forms of Christianity.

Hebrew Poetry and Philosophy.

Related courses in other departments are the following:

Professor Taintor.

9a. The Bible as Literature. The Old Testament. (Omitted in 1911-12.)

9b. The Bible as Literature. The New Testament. Text-book: "The Modern Reader's Bible," Moulton.

Second semester. Two hours. M., T., W., 11:15.

Professor Erickson.

9. Greek Testament. A careful study, text and interpretation of selected passages in the Greek New Testament. Prerequisite: Greek A.

Through the year. Two hours. T., Th., 1:15.

PHILOSOPHY.

Professor Mutch.

The work in Philosophy is planned not so much with the idea of offering many courses, or advanced work in the subject, as to provide strong elementary courses which shall meet the need of all college students. It is believed that Philosophy ought to furnish students with consistent foundations for their thinking, and a vital coördination of all their college studies into liberal education. Such an education should be a unit, and it should function in useful ways. It is the business of Philosophy to breathe into the structure a breath of life which will enable it so to do.

1. **Method of Nature.** This is a course for beginners in Philosophy. The main features of the work are the class discussions and a wide variety of readings. The student is exercised in independent thinking on the elementary questions about nature, especially its unity and development aspects. It correlates the parts of a college course, and gives one a point of view for all his later thinking.

First semester. Four hours. T., W., Th., F., 9:00.

2. **Philosophy of Culture.** After a brief review of the main points of Course 1, for the benefit of those who may not have taken it, the same method is continued into the field of human culture, as seen in history, society, and ethics.

First semester. Four hours. (Omitted in 1912-13.)

3. **Types of Modern Thought.** This course traces the thought of the leading philosophers since Descartes, upon the questions of reality, sense perception and knowledge. Calkins' "Persistent Problems in Philosophy" is followed as a text, and Rand's "Modern Philosophers," or its equivalent, is read in connection with the text.

Second semester. Four hours. T., W., Th., F., 9:00.

4. **Reality and Knowledge.** A study of present-day thought on metaphysical subjects, using as a text-book Paulsen's "Introduction to Philosophy."

Second semester. Four hours. (Omitted in 1912-13.)

13. **Logic.** A study of the forms and laws of exact reasoning, with a modern text-book on deductive and inductive Logic.

First semester. Two hours. T., Th., 3:15.

President Evans.

Greek Philosophy in its Relation to Christianity. See Greek 8.

Professor Erickson.

EDUCATION.

Professor Mutch.

The courses in Education are so shaped as to provide the best preparation for high school teaching; but the primary aim is cultural, and they are therefore valuable, apart from the teaching profession.

A state teacher's certificate is granted on application to the state superintendent, without examination by the state board of examiners, to graduates of Ripon College, who have satisfactorily completed one year's work in the standard courses in Pedagogy, that is, Education 5-6, 7-8, 5-8, or 7-6, and the regular four-hour course in Psychology, and who have had one year of successful experience in teaching in Wisconsin after graduation. A special license is issued for the first year.

For those who expect to make teaching their profession, it is desirable to take all the courses in Education, 5 to 12, and at least one of departmental courses for teachers.

5. History of Education. The course is based on Monroe's "Brief Course in the History of Education." There are some selected outside readings, and an additional study of the history of education in the United States.

First semester. Four hours. (Omitted in 1912-13.)

6. Pedagogy. Theory and general method of teaching, based on educational psychology and the best modern practice; special method, training, discipline, school management. Text-book, lectures, outside reading, class-room discussions, written papers, observation.

Second semester. Four hours. (Omitted in 1912-13.)

7. Philosophy of Education. A study of the fundamental theory of education, especially in its psychological, biological and sociological aspects. Outside reading, class discussions, written papers. Text-book: Bolton's "Principles of Education."

First semester. Four hours. T., W., Th., F., 8:00.

8. High School Teaching. A study of the pedagogy of secondary education; the organization and curriculum of the high school; the educational values of the subjects; general and special method; teaching how to study, and to use reference books and libraries. The course is conducted by lectures, outside reading, discussion, written papers, systematic observation work, and some practice in teaching.

Second semester. Four hours. T., W., Th., F., 8:00.

9. Jesus the Teacher. A study of the gospels, first, for the content, and second, for the method of Jesus' teaching. The course is useful for all teachers, whether in the public schools or the church schools, besides giving an interpretation of the personality and teaching of Jesus Christ.

First semester. Three hours. T., Th., F., 3:15.

11. Psychology. An elementary course in general Psychology with a combination of text-book, topical discussion and simple experiments. It should be taken by every college student, and should not be left until the senior year.

Second semester. Four hours. T., W., Th., F., 10:15.

10. Problems of Religion. A study of the nature and origin of religious phenomena and experience; religious education; institutions and ideals of religion, and the religious aspect of modern life. Reading, lectures, discussions.

First semester. Three hours. (Omitted in 1912-13.)

12. Colloquium. Reports on books, journals and other current discussions in Education and Philosophy. Open to students of either subject.

Through the year. One hour. Time to be arranged.

Courses for Teachers.

Latin. See Latin 12, 13. Professor Erickson.

German. See German 8, 9. Professor Harwood.

English. See English 12a, 12b. Professors Taintor and Nichols.

Physics. See Physics 10. Professor Barber.

Public School Music. Six courses. See School of Music. Professor Bintliff.

THE CLASSICS.

Professor Erickson.

Assistant Professor Hancox.

LATIN.

A. Course for Beginners. Special attention is given to the presentation of the subject so that a fairly comprehensive knowledge of it may be acquired by those who begin the study of Latin in the freshman year. This course meets the entrance requirements in foreign language, or may be counted for credit toward graduation.

Through the year. Four hours. M., T., W., F., 10:15.

B. Cicero-Virgil. This course follows Course A, or may be taken by students who have had two years Latin in the high school.

Through the year. Four hours.

1. **Livy.** Selections from Livy (Burton). **Cicero, De Senectute.** Prose Composition.

First semester. Four hours. M., T., W., Th., 11:15.

2. **Horace.** Odes and Epodes.

Second semester. Four hours. M., T., W., Th., 11:15.

3. **Latin Literature.** Plautus, Captivi, with introductory work in early Latin; selections from the elegiac poets; assigned reading on the literature of the Republic.

First semester. Three hours. M., W., F., 8:00.

4. **Latin Literature.** Tacitus, Germania and Agricola. Rapid reading of some of the letters of Pliny, and some of the epigrams of Martial. Assigned reading on the literature of the early empire.

Second semester. Three hours. M., W., F., 8:00.

5. **Lucretius.** De Rerum Naturae.

Cicero, Tusculan Disputations, Book 1 for rapid reading.

First semester. Three hours. M., T., Th., 10:15.

7. **Roman Satire.** A study of Juvenal and Horace, and of the history of Roman Satire.

First semester. Three hours. (Omitted in 1912-13.)

8. **Roman Comedy.** Selected plays of Plautus and Terence, for rapid reading.

Second semester. Three hours. M., T., Th., 10:15.

9. **The Reign of Tiberius.** Tacitus' Annals, Suetonius, Tiberius, and other writings bearing on the history and literature of the period.

Second semester. Three hours. (Omitted in 1912-13.)

10. **Virgil.** The class will read the Eclogues, parts of the Georgics, and Books VII-XII of the Aeneid. Study of Sources, methods and literary influence of Virgil.

Second semester. Three hours. (Omitted in 1912-13.)

12. **Course for Teachers.** About one half of the time will be given to a study of the more important phases of Latin grammar and to prose composition. Part of the authors usually read in the high school course will be studied.

Discussion of problems connected with the teaching of Latin in secondary schools.

Through the year. Two hours. M., W., 9:00.

13. Journal Club. Reports on books and articles in the current journals, and discussion of general topics pertaining to the classics.

Through the year. One hour. Time to be arranged.

See also the course in Classical Literature, Greek 7; and the course in Ancient History, History 5.

GREEK.

A. Course for Beginners. Burgess and Bonner, Elementary Greek, Goodwin's Grammar, Goodwin and White's Anabasis.

A year course. Four hours. M., T., W., F., 10:15.

1-2. Xenophon, Homer. Selections from the Hellenica of Xenophon; Homer's Odyssey, selected portions. Systematic review of grammar.

Through the year. Four hours. M., T., Th., F., 2:15.

3-4. Plato, Euripides, Aristophanes, Lucian. Plato's Apology and selections from other writings; Euripides, Alcestis and Iphigenia in Tauris; Aristophanes, Acharnians; selections from Lucian.

Through the year. Three hours. T., W., F., 9:00.

5-6. Thucydides, Aeschylus, Demosthenes. Thucydides, the Sicilian Expedition; Aeschylus, Agamemnon; Demosthenes, On the Crown.

(Omitted in 1911-12.)

9. Greek Testament. A careful study, text and interpretation of selected passages in the Greek New Testament. Prerequisite: Greek A.

Through the year. Two hours. T., Th., 1:15.

7. Classical Literature. A study, through English translations, of the masterpieces of Greek and Latin literature, and of the influence of the classics upon the form and content of later literature.

First semester. Three hours. M., W., F. (Omitted in 1912-13.)

8. Greek Philosophy and Its Relation to Christianity. A survey of ancient philosophy, and of the more popular religious and ethical ideas, down to and including contact with Christianity.

Second semester. Three hours. (Omitted in 1912-13.)

ARCHAEOLOGY.

Professor Erickson.

1a. Classical Archaeology. A study of important centers of ancient civilization, as Knossus, Mycenae, Athens, Delphi, and Olympia. Study of monuments which are most important for a knowledge of Greek architecture and sculpture. Lectures on the minor arts. Emphasis is placed on the relation of archaeology to literature and history.

First semester. Two hours. (Omitted in 1912-13.)

3. Topography and Monuments of Rome. The growth of the ancient city from its foundation to the fourth century; the topography of Rome; study of important monuments. Lectures on Roman architecture and sculpture.

First semester. Two hours. T., Th., 2:15.

4. Pompeii and Roman Private Life. The excavations of Pompeii are studied and made the basis of a course of lectures on the life of the Romans.

Second semester. Two hours. T., Th., 2:15.

GERMAN.

Professor Harwood.

Miss Zobel.

Miss Zobel.

A. Course for Beginners. This course is arranged for students who have not met the college entrance requirements in German. The work, if satisfactorily done, will admit the student to the Freshman German.

Thomas' "Practical German Grammar," Part I. Reading, dictation, memorizing, reciting in German.

Through the year. Four hours. M., T., W., F., 10:15.

First Year.

1 and 2. Freshman German. This course is intended to continue the work begun in the secondary schools. It is conducted in German, and the lessons are to be recited in part in German.

Study of the novel or the short story, three hours; prose composition, one hour.

Through the year. Four hours.

Section 1: M., T., W., Th., 11:15.

Section 2: M., T., Th., F., 2:15.

Second Year.

Professor Harwood.

3. Sophomore German. This course is conducted entirely in German. Study of the works of Riehl, Rosegger, Saar, Storm, and others, with written reviews of the works read.

First semester. Three hours. M., T., Th., 3:15.

4. Sophomore German. This course is conducted in the same manner as 3. Study of the dramas of Freytag, Fulda, Grillparzer, Sudermann, and Wildenbruch.

Second Semester. Three hours. M., T., Th., 3:15.

Third Year.

5. Lessing-Schiller. The principal plays of these two dramatists are studied. Written reviews of the works read.

First semester. Three hours. M., W., F., 11:15.

6. Goethe. This course is conducted on the same plan as the Lessing-Schiller course.

Second semester. Three hours. M., W., F., 11:15.

Fourth Year.

7 and 8. Course for Teachers. This course is designed for students who are intending to teach, and is open to those who have completed 5 and 6.

Composition on assigned themes, one hour; review of the grammar, one hour; recitation on readings from German newspapers and periodicals in addition.

The members of this class are called upon to conduct recitations, and are also given opportunity to act as substitute teachers.

Through the year. Two hours. T., Th., 1:15.

FRENCH.

Professor Harwood.

Associate Professor Simmons.

Associate Professor Simmons.

1 and 2. Elementary French. Grammar, reading, composition, dictation, and oral exercises. Fraser and Squair's French Grammar. Much attention is paid to pronunciation; and, as far as possible, French will be the language of the class-room.

Through the year. Four hours.

Section 1: M., T., W., F., 10:15.

3. Sophomore French. Reading and composition; supplementary reading and reports. The class-room work is, as far as possible, conducted in French. The following texts suggest the nature of the reading, rather than the actual works that may be read: Daudet's Short Stories; Mérimée's "Colomba"; Erckmann-Chatrian's "Conscrit de 1813"; De Vigny's "Cachet Rouge," etc.

First semester. Three hours. M., W., F., 9:00.

4. Sophomore French. A continuation of Course 3.

Second semester. Three hours. M., W., F., 9:00.

Professor Harwood.

5. Advanced Reading. The texts will be chosen largely from the seventeenth century classics, and from the novels and dramas of the nineteenth century. A large amount of reading will be done; students will give frequent written and oral reports and summaries in French.

First semester. Three hours. M., W., F., 8:00.

6. Advanced Reading. A continuation of Course 5.

Second semester. Three hours. M., W., F., 8:00.

Associate Professor Simmons.

7. French Literature. General survey of the fourteenth, fifteenth and sixteenth centuries. Lectures, readings and reports.

First semester. Three hours. M. T., Th., 2:15.

8. French Literature. The seventeenth century. Lectures, readings and reports.

Second semester. Three hours. M., T., Th., 2:15.

9. French Composition and Conversation. Prerequisite: Courses 1 and 2 above. Except by special permission, may be taken only by students enrolled in some other course in French. Especially recommended to students taking French 3. Required of students who major in the department.

First semester. Two hours. T., Th., 9:00.

10. French Composition and Conversation. A continuation of Course 9.

Second semester. Two hours. T., Th., 9:00.

ENGLISH.

Professor Taintor.

Professor Nichols.

The work in English includes the study of Literature, and of Composition. The Literature courses, and also the first year work in the History of English Literature, are given by Professor Taintor. The courses in Composition are given by Professor Nichols.

The course known as English 1, including 1a and 1b, is a prerequisite for all other courses in English, and should be taken in the first year.

A Course for Teachers, designed for those in the upper classes who are preparing to teach, will also be given. The course will include a review of the college entrance requirements under Professor Taintor in the first semester, and a review of the principles of composition under Professor Nichols in the second semester. This is a full year course, one hour a week. No credit will be given for less than a year's work.

ENGLISH LITERATURE.

Professor Taintor.

1a. The History of English Literature. A general survey of English literature from the earliest period to the Victorian age. Required of freshmen.

Through the year. Two hours.

Section 1: M., Th., 1:15.

Section 2: T., F., 1:15.

10. The American Poets. Readings from the representative poets of America. In connection with the course lectures will be given on the principles of Elementary Criticism.

Open to sophomores.

First semester. Three hours. W., Th., F., 8:00.

3a. Shakespeare. Studies in the Tragedies.

First semester. Three hours. W., Th., F., 10:15.

5. The Romantic Movement. Studies in the poems of Wordsworth, Coleridge, Scott, Byron, Shelley, Keats, with lectures on the age which they represent.

First semester. Three hours. M., T., W., 11:15.

6. The Age of Tennyson. Special attention is given to the poems of Tennyson and Browning.

Second semester. Three hours. W., Th., F., 8:00.

3b. Shakespeare's Comedies. Open to sophomores.

Second semester. Three hours. W., Th., F., 10:15.

9. The Bible as Literature. This course attempts to present the great variety of types of literature found in the Old and New Testaments, dealing with them as with any other similar types.

Second semester. Three hours. M., T., W., 11:15.

2. Chaucer. This course is designed for those who desire a general acquaintance with Chaucer's poems, and an insight into the life of the fourteenth century. It consists chiefly in the reading of the poems, with frequent reports upon matters pertaining to his times. It requires no previous study of Middle English.

Second semester. Two hours. M., T., 3:15.

12a. This course is given in connection with the course under Professor Nichols (12b, second semester), and should be taken only by those who plan to take the whole year's work.

First semester. One hour. M., 3:15.

3. Shakespeare's Historical Plays.

(Omitted in 1912-13.)

4. The Age of Milton.

(Omitted in 1912-13.)

7. English Prose.

(Omitted in 1912-13.)

8. The Drama before Shakespeare.

(Omitted in 1912-13.)

ENGLISH COMPOSITION AND PUBLIC SPEAKING.

Professor Nichols.

COMPOSITION.

1b. Freshman English Composition. A course in the principles of written and oral expression. The four forms of discourse, debating, letter writing, and criticism will be studied. Attention will be given to sentence structure, the paragraph, outlining, and correctness in detail. Daily and fortnightly themes will be required.

Text-books: "Manual of Composition and Rhetoric," Gardiner, Kittredge, and Arnold; "Specimens of Prose Composition," Nutter, Hersey, and Greenough.

Through the year. Two hours.

Section 1: T., F., 1:15.

Section 2: M., Th., 1:15.

2. Journalism. A course in the study of newspaper methods, reporting, editorial writing, and feature work. Lectures and assignments. Limited to ten.

First semester. Two hours. T., Th., 10:15.

3. Exposition. This course is intended for those who wish to continue their writing work in the sophomore year. It will consist of a study of exposition, scientific description, thesis work, note taking, and essay writing. A regular schedule of writing will be followed. Lectures and conferences.

Second semester. Two hours. T., Th., 9:00.

4. Advanced Composition. A course in short story writing, essay writing, and literary criticism, designed for those who show ability in work of this kind. Lectures and study of models. Writing schedule and conferences.

Through the year. Two hours. M., W., 8:00.

12b. Course for Teachers. This course is recommended to students who plan to teach English. It consists of a rapid and comprehensive review of the elements of composition. The work is carried on with a view to impress on the minds of teachers the fundamental principles of effective writing. This course is given in connection with course 12a under Professor Taintor.

Second semester. One hour. M., 3:15.

PUBLIC SPEAKING.

7. The Forms of Public Address. A study of the rhetoric, philosophy, psychology, and sociology of oratory, with special attention to the college oration. Outside reading, written address or college oration required. Lectures and conferences.

First semester. Two hours. M., W., 9:00.

8. The Literature of Oratory. A reading course in the masterpieces of oratory. Speeches of Burke, Henry, Webster, Lincoln and others, will be studied and analyzed in class. A schedule of outside reading will be followed. Theme work required.

Second semester. Two hours. M., W., 9:00.

9. Argumentation and Debating. A course in the study of argumentation and in the practice of debating. One hour a week will be given to text-book and lecture work, or to the study of theory and methods. Two consecutive hours will be given to practice debating once each week. The class is limited to sixteen, and will not be given for less than ten.

Through the year. W., 7:30-9:30 p. m.

10. Public Speaking. An elementary course in expression, designed for those who wish to study for greater ease and power in platform address. Committed, extempore, and impromptu work will be required. Some attention will be given to the training of the voice, proper breathing, and exercise. To gain the ability "to think on one's feet" will be the main object of the course.

Through the year. Two hours. T., F., 3:15.

HISTORY.

Professor Barton.

Students who specialize in European History are required to take courses 1, 5a, 5b, 6, 7a, 7b, 8, and course 1 in Economics, and are required further to elect from courses 14, 15, 16, or 17, to the number of eight hours.

1. United States History. A general survey of the social, economic and political history of the United States. Lecture on the origin and growth of political parties. Not open to freshmen.

Text-book. American History. Also Caldwell's "Source" History will be used, and McDonald's "Documentary Source Book."

First semester. Four hours. M., T., Th., F., 2:15.

12. United States History, 1765-1865. A detailed study of this period. Lectures, reports, and required readings, chiefly in "Elson's History of the United States."

Second semester. Four hours. M., T., Th., F., 2:15.

5a. History of Greece. This course is a general survey of the history of Greece from the earliest times to the fall of Corinth. Emphasis is laid on both the political and the constitutional aspects of the subject.

Lecture and recitation methods employed.

First semester. Four hours. (Omitted in 1912-13.)

5b. History of Rome. This course, which is designed to follow the History of Greece, and to constitute with that a year's work in Ancient History, is a general survey of the history of Rome from the earliest times to the era of Diocletian. As in the "History of Greece," emphasis is laid on both the political and the constitutional aspects of the subject.

Second semester. Four hours. (Omitted in 1912-13.)

6. Mediaeval History. This course is a survey of continental Europe from the barbarian invasions to the close of the fifteenth century. Special emphasis is laid upon the development of the Frankish power under the Merovingian rulers; the empire of Charlemagne; the rise of the papacy; feudalism; France under the Capetians; the Hohenstauffen rulers; the struggle of empire and papacy; Mohammedanism; the Crusades; monasticism; Germany and Italy in the later Middle Age; the Hundred Years' War; mediaeval culture; the rise of the towns; beginnings of the Renaissance.

This course is designed especially for freshmen.

Text-books: "History of Western Europe," Robinson; "Readings," Vol. I., Robinson.

First semester. Four hours. M., T., W., Th., 11:15.

8. Modern History. This course is a general survey of Europe from the close of the fifteenth century to the present day. It is designed as a continuation of Course 6.

The course lays emphasis upon the Renaissance; the Lutheran revolt; the Protestant revolt in Switzerland; the religious wars in France and the Netherlands; the Thirty Years' War; France under the Bourbons; the rise of Prussia; Russia as a European state in the modern period; the French Revolution; the Napoleonic Era; the revolutions of the nineteenth century.

This course is designed especially for freshmen.

Text-books: "History of Western Europe," Robinson; "Readings," Vol. II., Robinson.

Second semester. Four hours. M., T., W., Th., 11:15.

7a. English Political and Constitutional History. This course is designed as a study of the political and the constitutional history of England from the Teutonic conquest of Britain to the establishment of the Tudor dynasty.

Text-books: Cheyney. "History of England," Cheyney. Reading.

First semester. Four hours. M., T., Th., F., 9:00.

7b. English Political and Constitutional History. This course is a continuation of Course 9. It embraces a study of the political and the constitutional history of England from the accession of the Tudors to the nineteenth century.

Second semester. Four hours. M., T., Th., F., 9:00.

17. Europe in the Feudal Age. This course is a study of the history and the conditions of western Europe from the fall of the Empire in the west to the Great Interregnum. Emphasis is laid on the development of the Frankish power, the origins of feudalism, and the growth of the papacy. The study of feudalism and the feudal conditions is made as thorough as possible. A constant use of collected documents is required. Lecture and recitation methods.

Prerequisite: Courses 7 and 8.

Text-books: "The Dark Ages," Oman; "The Empire and Papacy," Tout; "A Source Book of Mediaeval History," Thatcher and MacNeal.

First semester. Two hours. M., Th., 3:15.

15. Era of the Renaissance and the Reformation. This course is intended to include the general history of Europe in the fourteenth, fifteenth and sixteenth centuries, with particular and detailed study of the two movements named.

Prerequisite: Courses 7 and 8.

Text-books: "The Close of the Middle Age," Lodge; "Europe in the Sixteenth Century," Johnson.

Second semester. Two hours. M., Th., 3:15.

14. Europe in the 17th and 18th Centuries. This course is a study of the rise of France to pre-eminent power, and the beginnings of her decay; the rise of Prussia and Russia; England's expansion in these centuries; the French Revolution; the Napoleonic Era.

Prerequisite: Courses 7 and 8.

First semester. Four hours. (Omitted in 1912-13.)

16. Europe in the 19th Century. This course is concerned with a study of European affairs from 1815 to the present time. It lays emphasis upon the effects of the revolutionary movements of the century, the development of the ideal of nationality, the unification of Germany and of Italy, the British and Russian Empires in the nineteenth century; the Eastern question, the expansion of Europe.

Prerequisite: Courses 7 and 8.

Second semester. Four hours. (Omitted in 1912-13.)

18. Political Science 1. This course embraces a study of the general principles of political science; its nature, scope, and methods; the essential constituent elements of the state; the functions and sphere of the state; citizenship and nationality; the electorate, etc.

Lectures, recitations and reports.

Text-books: Gettell, "Introduction to Political Science," and Gettell, "Readings in Political Science."

First semester. Three hours. M., W., F., 10:15.

13. Seminar in History—chiefly in Modern European History. In 1912 the subject will be the unification of Italy. Assigned topics and reports, with occasional lectures. Open only to seniors.

First and second semesters. T., F., 3:15.

ECONOMICS.

Professor Marston.

Course 1 is not open to freshmen. It must precede all other courses in economics, and is required of those taking their major in history. Those majoring in economics are required to take the work outlined below, together with courses 1, 2, 6, 7, 7b, and 13 and 18 in history.

Students desiring to prepare for law, a business career, and certain branches of the foreign and domestic governmental service, will find the economic courses recommended on page 29.

The work will be carried on by means of text-books, lectures, discussions, reports, and required readings. Separate and final examinations are held on both texts and lectures in all courses. The minimum requirement of reading, exclusive of the text-books, is twenty-five pages a week for every unit of credit.

Note. In 1912-13, Professor Marston will be on leave of absence for study and travel. In 1913-14, these and additional courses in Economics and Sociology will be given.

1. The Principles of Economics. A general survey introductory to all other courses in economics. Its purpose is to acquaint the student with fundamental principles, to open the field for a more detailed and extensive study, and to offer

such rules and principles as are contributed to business success by the science of economics.

First semester. Four hours.

2. The Principles of Public Finance. A general course embracing: (a) public expenditures, their nature, classification and relation to public welfare, lectures; (b) public revenues, their classification, nature and characteristics. Taxation will receive particular attention. Its nature, principles, sources, limits, incidence and influence, and in the study of its particular forms, as the general property tax, income, inheritance and business taxes. (c) Public Credit; when and how employed; contraction of public debts, their classification, flotation, conversion, funding and redemption. (d) Financial Administration; the budget, its preparation, form and composition; collection of revenue; war financiering. Text-book: "Finance," Adams. (Omitted in 1911-12.)

3. Economic Problems. This course embraces a study of labor and capital; free trade and protection; immigration; industrial crises; transportation and railroad rates; the trust problem and municipal ownership.

First semester. Four hours.

4. Money, Credit and Banking. An examination of value and functions of money; standards of value; currency systems of the world; a review of the positions of the bimetallists and the quantity theorists; systems and coinage of metallic currency; credit, credit documents; paper money, convertible and inconvertible notes; clearing-houses; foreign exchanges; banks and banking; modern currency problems; foreign banking systems. (Omitted in 1911-12.)

7. Social and Industrial Reform. This course embraces a study of co-operation; profit-sharing; communism; socialism; factory legislation; workingman's insurance; trade unionism, and industrial federation.

Second semester. Four hours.

6. Economic Seminar. The course is designed to afford training in economic investigation and practice in the use of sources. Each member of the class is expected to complete some single topic, embodying the results of his special research, and present it in the form of a written thesis for criticism and discussion. The field from which topics are chosen will vary from year to year. Open only to seniors.

Through the year.

MATHEMATICS.

Associate Professor Sherwood.

Mr. Imrie.

1. **Algebra.** The first few weeks are devoted to a brief review of the topics covered by the college entrance requirements in algebra. The remainder of the course is given to the study of the elementary properties of quadratic equations, with special emphasis upon their graphical interpretation, progressions, permutations and combinations; binomial theorem; complex numbers; undetermined coefficients; and the general theory of equations and the elements of determinants.

First semester: Three hours.

Section 1: M., W., F., 8:00.

Section 2: M., W., F., 9:00.

2. **Plane Trigonometry.** This course covers the elementary theory of trigonometric functions and the elements of logarithms.

Second semester. Sections and hours the same as for Mathematics 1.

3. **Mechanical Drawing.** Use of instruments; graphical solution of conic sections; orthographic projection; isometric projection; development of surfaces; intersection of surfaces; working drawings; lettering; tracing.

Through the year. Three hours. T., Th., F., 2:15-4:15.

7. **Descriptive Geometry.** Problems relating to the point, line and plane; revolution and counter-revolution of objects, curved lines and surfaces; tangent planes; plane sections and developments of surfaces.

One recitation and three hours drawing.

Prerequisite: Mathematics 3.

Through the year. Two hours. M., 2:15, T., 2:15-4:15.

8. **Analytical Geometry.** The point; loci; the straight line; transformation of co-ordinates; the circle; conic sections, including a discussion of the general equation of the second degree; parametric equation. A brief course on the Analytical Geometry of three dimensions.

Students registering for this course are expected to register for Mathematics 9.

Prerequisite: Mathematics 1 and 2.

Through the year. Two hours. T., Th., 10:15.

9. Essentials of Calculus. Rates and limits; rules for differentiation; tangents and normals; maxima and minima; points of inflection; theorems of mean value; Taylor's theorem; curvature; definite and indefinite integrals; rules for integration; applications to finding volumes, center of gravity, moments of inertia, etc.

The traditional division of the Calculus into Differential Calculus and Integral Calculus has been largely disregarded in this course, but the principles of each are developed together. By this arrangement it is hoped the student will obtain a better grasp on the subject as a whole. The course is designed to give the student the necessary foundation in the fundamentals of the subject, and so arranged that he may be led by easy steps into simple applications of the Calculus to physical and engineering phenomena.

Prerequisite: Mathematics 8. Must be taken with this course, if not previously taken.

Through the year. Three hours. M., W., F., 10:15.

20. Advanced Calculus. This course supplements Mathematics 6, and is devoted to the more advanced and difficult topics of the subject. Special attention is given to such topics as: partial differentiation; definite integrals over curves, surfaces and volumes; simple differential equations; maxima and minima of two or more variables; infinite series, including a brief discussion of Fourier's Series.

Prerequisite: Mathematics 9.

First semester. Three hours.

Given in alternate years with Mathematics 19.

19. Theoretical Mechanics. Statics: Newton's Laws of Motion; dynamics of a particle; trajectories; friction; central forces; elementary theory of planetary motions; work and energy; momentum and impulse; dynamics of a rigid body; motion of system of particles; virtual work; centers of mass; moments of inertia; D'Alembert's Principle; Euler's Equations; generalized co-ordinates.

Prerequisite: Mathematics 9.

Through the year. Three hours. M., W., F., 11:15.

Given in alternate years with Mathematics 20 and 15.

15. Differential Equations. Integration of differential equations of higher order than the first, and of systems of differential equations; integration of linear differential equations

by means of series; integration of partial differential equations and systems of such equations.

Prerequisite: Mathematics 6.

Second semester. Three hours.

Given in alternate years with Mathematics 19.

17. Vector Analysis. This course is designed primarily for students in Mathematical Physics, as it is of great importance in the study of this branch of Physics. Elementary operations of Vector Analysis; scalar and vector products, differentiation of Vectors, the differential operators. Applications to Geometry, Dynamics, Mechanics, Hydrodynamics, and Electrical Theory.

Prerequisite: Mathematics 19 and 15.

Through the year. Two hours. (Omitted in 1912-13.)

BIOLOGY.

Professor Talbert.

Mr. Loshinski.

The department of Biology has courses that are well adapted for general culture, and for specialization. Those who intend to teach or study medicine, agriculture or forestry, will find suitable courses, and laboratories well equipped for these special subjects.

1. Comparative Anatomy of Invertebrates. The anatomy, and to some extent the physiology, of invertebrate animals are studied. Dissections and drawings are made of representatives of the most important classes of invertebrates.

Text-books: "Invertebrate Zoology for Laboratory Work," Pratt, and Shipley and MacBride "Zoology."

First semester. Four hours. M., Th., 3:15. Laboratory, M., F., 8:00-10:00.

2. General Botany. A study of the morphology and physiology of the types of all classes beginning with the unicellular forms and ending with the flowering plant, much emphasis being laid on the development from the evolutionary standpoint.

Text-book: Atkinson's "College Botany."

Second semester. Three hours. M., 3:15. Laboratory, W., S., 8:00-10:00.

3. Comparative Anatomy of Vertebrates. This course is designed to give an idea of the life history of vertebrates. The frog is taken as a type, and a fairly complete study is made of its natural history, anatomy, physiology, and development.

Instinct, intelligence, adaptation to environment, etc., are also discussed. This is followed by a comparative study of different types of chordates like the balanoglossus, amphioxus, perch, turtle, pigeon and some mammal, which is intended to give the student comprehensive knowledge of the structure and development of vertebrates in general.

Text-books: "Vertebrate Zoology for Laboratory Work," Pratt, and Shipley and MacBride "Zoology."

Second semester. Four hours. T., F., 3:15. Laboratory, M., F., 8:00-10:00.

4. Histology. The student who has completed course 3 on the gross anatomy of animals, is prepared to study the microscopic structure of the various tissues. Each student prepares sections, stains, and mounts tissues, and makes drawings from his own preparations and from slides belonging to the department.

Prerequisite: Course 3.

Text-book: "Histology," Hill.

First semester. Four hours. T., 11:15. Laboratory, T., Th., F., 1:15-3:15.

5. Embryology. Work is confined to the embryology of vertebrates, the frog and the chick serving as types. The laboratory is provided with an incubator, and each student makes preparations of the different stages of development of the types studied.

Prerequisite: Courses 3 and 4.

Text-book: Lillie's "Development of Chick."

Second semester. Five hours. M., W., 11:15. Laboratory, M., T., Th., 1:15-3:15.

6. Bacteriology. This course is intended to give training in bacteriological technique, and to give a knowledge of the principles of bacteriology. The characteristics of a number of typical bacteria are worked out in detail, and then the names of unknown species are determined. Experiments are performed, illustrating the physiological characteristics of bacteria. Quantitative analyses are made of air, milk, water. Those who desire this course as a preparation for Agriculture, can make suitable arrangements as to hours and special work.

Text-books: "Laboratory Manual," Frost, and "General Bacteriology," Jordan.

First semester. Five hours. Th., 10:00. Laboratory, M., T., Th., 1:15-3:15.

7. Physiology. This course is especially valuable to those intending to study medicine. It will also be found helpful by students intending to teach, and by those taking courses in psychology. The subject is taught by lectures, recitations, demonstrations and laboratory work. Much attention is given to muscle and nerve preparations, extrinsic and intrinsic action of the heart, blood pressure, vasomotor action, mechanical and chemical action of respiration, tests for foods and the artificial digestion of foods, functions of brain and spinal cord, and special senses.

Text-books: "Introduction to Physiology," Porter, and Howell's "Text-book of Physiology."

First semester. Five hours. T., W., Th., 9:00. Laboratory.

8. Paleontology. This is a course for the study of extinct animals, which is especially valuable for those who have studied Comparative Anatomy and Embryology. The former is considered a prerequisite, while the latter would be helpful. This subject will give a student a clearer insight into the evolutionary developments of animals. The museum is well equipped in fossils, especially those of the Wisconsin formations. The laboratory work consists of a study of these fossils.

Text-books: "Extinct Animals," Lankester; "Paleontology," Zittel.

Second semester. Two hours. T., Th., 11:15.

9. Agricultural Botany. This course is especially adapted for students who are interested in agriculture and forestry. While some time is devoted to morphology and physiology, especial emphasis is placed upon the classification of cultivated plants and their parasitic fungi.

General Botany, Course 2, is recommended as a prerequisite.

Text-books: Percival's "Agricultural Botany," with references in the various agricultural experimental station publications.

First semester. Four hours. M., F., 1:15. Laboratory, T., Th., 2:15-4:15.

10. Physiology and Hygiene. This course is open, without prerequisites, to all college students. Only enough anatomy is studied to give the necessary foundation for an understanding of the workings of the human body. Much of the time of the course is devoted to questions of personal hygiene

and the public health. Lectures, demonstrations, and recitations, with a few laboratory exercises.

Text-book: Martin's "Human Body," Advanced.

Second semester. Four hours. M., T., W., F., 10:15.

11. Journal Club. This course consists mainly of the review of articles in the biological journals. Only students who are making biology their major subjects are admitted to this class.

Through the year. One hour.

CHEMISTRY.

Professor Gilman.

Mr. Krause.

The Department of Chemistry, in a variety of courses, offers to the students ample facilities to prepare themselves for modern laboratory practice. The work of the first year consists of a thorough course in general chemistry and qualitative analysis, including lectures, recitations, and laboratory experiments. During the second year the students are given a systematic training in analytical methods, which is followed in the third year with courses in organic chemistry, and in the fourth year with courses in physiological and industrial chemistry. To students intending to pursue the study of medicine, opportunity is given to prepare for meeting the requirements now prescribed for candidates by the foremost medical schools of the country.

First Year.

1. General Chemistry. The work in this department begins with a course in elementary inorganic chemistry, with laboratory practice. It includes a study of the fundamental laws, and the non-metallic elements and their compounds. Lectures, recitations, quizzes, problems.

Prerequisite: Elementary Physics.

First semester. Four hours. W., 9:00; Th., 10:15; F., 11:15. Laboratory, M., F., 8:00-10:00; or T., Th., 8:00-10:00.

2. Qualitative Analysis. This is a continuation of course 1. A careful investigation of the metallic elements and their compounds is made during the first part of the semester, and the remainder of the time is devoted to Qualitative Analysis.

Prerequisite: Chemistry 1.

Second semester. Four hours. Th., 10:15; F., 11:15. Laboratory, M., F., 8:00-10:00; or T., Th., 8:00-10:00.

Second Year.

3. Quantitative Analysis. Lectures, recitations, and laboratory practice in the use of the methods of gravimetric and colormetric analysis; separation and estimation of metals, acids, and water of crystallization.

Prerequisite: Chemistry 2.

First semester. Four hours. Th., 11:15. Laboratory, M., T., Th., 1:15-3:15.

4. Analytical Chemistry. This is a continuation of course 3. Special applications of volumetric analysis; analysis of alloys, mineral and water analyses.

Prerequisite: Chemistry 3.

Second semester. Four hours. T., Th., 11:15. Laboratory, T., Th., 1:15-3:15.

Third Year.

6. Organic Chemistry. A course in general organic chemistry. Lectures, recitations, and laboratory work. The Aliphatic Series with special reference to the more important hydrocarbons and their derivatives.

Prerequisite: Chemistry 4.

First semester. Five hours. M., W., F., 10:15; Laboratory, S., 8:00-12:00.

10. Advanced Organic Chemistry. The Aromatic Series. Lectures, recitations, and laboratory work.

Prerequisite: Chemistry 6.

Second semester. Four hours. M., W., 10:15, Laboratory, M., F., 1:15-3:15.

Fourth Year.

5. Medical and Physiological Chemistry. A technical course for those who are preparing for the medical profession. This includes the examination of blood, muscular tissue, gastric digestion, testing of milk, and urinary analysis.

Prerequisite: Chemistry.

First semester. Five hours. T., Th., F., 3:15; Laboratory, M., F., 1:15-3:15.

12. Industrial Chemistry. Lectures and collateral reading, and laboratory practice. The subjects are: Cement, mortar and building material, milk products, cereals, starch,

sugar, meat, oils, fats and soaps. Bleaching and dyeing. Tanning.

Prerequisite: Chemistry 6.

Second semester. Four hours. M., W., 11:15; Laboratory, S., 8:00-12:00.

9. History of Chemistry. This course is designed for advanced students. During the first semester a study will be made of the history of chemistry, and during the second semester the historical development of the important theories of chemistry.

Prerequisite: Chemistry 4.

One hour. Time arranged on consultation.

8. Research Work. This course is designed for advanced students in chemistry. Special subjects, and the amount of credit, will be arranged on consultation with the instructor.

11. Journal Club. This course consists of discussion of articles appearing in the scientific magazines. An elective course for students in advanced Chemistry.

One hour through the year. Time arranged on consultation.

PHYSICS.

Professor Barber.

Mr. Imrie.

Physics A-B. An introductory course in physics for students who wish to become acquainted with the results, methods, and spirit of the science, whether they intend to pursue its study further, or wish an elementary knowledge of physics only as a matter of general information. This course is arranged primarily for students who do not present elementary physics for entrance.

Text-book: "First Course in Physics," Millikan and Gale.

Through the year. Four hours. Arranged on consultation.

General Physics. Fundamental principles of physical science for those contemplating the study of any pure science, or engineering, or medicine, or teaching, are presented mainly from the experimental standpoint. The instruction in lectures, recitations, quizzes, problem papers and private readings is entirely concerned with the principles studied in the laboratory and the practical applications of the same. In this man-

ner, a thorough grasp of foundation principles is obtained, by continually connecting theory and experiment.

The laboratory work is exclusively quantitative, the aim being to present the subject as a science of exact measurement. The apparatus is all new, and much of it but recently designed for this particular line of work. With it, the student is put in touch with the methods and instruments of modern physical investigation.

Prerequisite: Trigonometry.

General Reference Text: "Physics," Watson, or "College Physics," Reed and Guthe.

1. Mechanics, Molecular Physics and Heat.

Text-book: "Mechanics, Molecular Physics and Heat." Millikan.

First semester. Five hours. T., Th., 9:00.

Laboratory, M., W., F., 8:00-10:00.

Second division arranged on consultation.

2. Electricity, Magnetism, Sound and Light.

Text-book: "Electricity, Sound and Light," Millikan and Mills.

Second semester. Five hours as above.

3. Advanced Course in Light. Geometrical and Physical Optics will be treated in detail. Under the former head, some of the most important optical instruments will be studied; under the latter, the wave theory of light will be developed.

This course aims to be a practical and useful study of optics. Spectroscopy, diffraction, dispersion, interference, and polarization will be discussed thoroughly in lecture and recitation, and this discussion followed by accurate measurements in the laboratory.

Prerequisite: Courses 1 and 2.

Text-book: "Light for Students," Edser.

First semester. Four hours. T., Th., 11:15. Laboratory, M., F., 1:15-3:15; or S., 8:00-12:00.

4. Advanced Course in Heat and Molecular Physics. The aim of this course is to give a comprehensive view of the science of heat in its theoretical and experimental aspects; consequently, much of the recent work in this subject is discussed. The laboratory exercises consist of exact measurements in mercurial and air thermometry, calorimetry, mechanical equivalent of heat, coefficients of expansion and conductivity, vapor pressures and densities, freezing and boiling points, latent and

specific heats, hygrometry and pyrometry. Particular attention will be given to the errors peculiar to heat measurements and the elimination of the same.

Prerequisite: Courses 1 and 2.

Text-books: "Heat for Advanced Students," Edser. "Heat," Poynting and Thompson.

Second semester. Four hours. T., Th., 11:15. Laboratory, M., F., 1:15-3:15; or S., 8:00-12:00.

5. Mathematical Theory of Electricity and Magnetism.

This course discusses the fundamental principles of the mathematical theory of electricity and magnetism and their more important applications.

Prerequisite: Courses 1, 2, and Calculus.

Course 6a is designed to accompany this course.

Text-book: Foster and Porter's "Electricity and Magnetism" founded on Joubert's "Traité Élémentaire d'Electricité."

First semester. Three hours. M., W., F., 11:15.

6a and 6b. Electrical Measurements. A laboratory course of systematic instruction in precise electrical measurements for students of Physics and Electrical Engineering.

Prerequisite: Courses 1, 2 and Calculus.

Text-books: "Electrical Measurements," Carhart and Patterson. "Practical Electrical Testing in Physics and Electrical Engineering," Parr.

Through the year. Two hours. Laboratory periods arranged on consultation.

7. Kinetic Theory. A course introducing the mathematical theory of the subject, with collateral reading in Meyer's "Kinetic Theory of Gases" and Preston's "Theory of Heat."

Prerequisite: Courses 1, 2, 4, and Calculus.

Text-book: "Kinetic Theory," Boynton.

Second semester. Three hours. (Omitted in 1913.)

8a and 8b. Colloquium. At the weekly meetings the students present before the class, for informal discussion, subjects not treated in the class-room, and reviews of articles appearing in the scientific journals. The course also aims to teach the student the efficient use of a reference library, and of the various indexes and catalogues. Each student is required to prepare a bibliography of some one physical subject. The work of the colloquium has an excellent effect in training students to present their ideas in a systematic manner before an auditory.

Open only to students who take their major or minor in Physics.

Through the year. One hour. Arranged on consultation.

9. History of Physics. A course devoted to readings and discussions, in order that the student may become acquainted with the historical development of Physics.

Open only to juniors and seniors in Physics.

Text-book: "History of Physics," Cajori.

Second semester. One hour. Arranged on consultation.

This course will alternate with 8b.

10. Course for Teachers. A course designed especially to meet the needs of students who expect to teach Physics in the secondary schools.

Prerequisite: Courses 1, 2, 3, and 4.

Second semester. Two hours. Arranged on consultation.

11. Electron Theory. This course will be concerned with the development of the so-called "machinery" of the electron theory. Particular attention will be given to the very recent literature of the subject contained in the scientific magazines. This course will alternate with Course 7.

Prerequisite: Courses 1, 2 and 5.

Second semester. Three hours. M., W., F., 11:15.

MUSIC.

Professor Bintliff.

Courses in the Theory and History of Music as outlined in detail in the pages devoted to the School of Music will be credited as college electives. The maximum amount of credit allowed toward the degree of Bachelor of Arts will be twelve hours.

The College Awards

DEGREES.

Bachelor of Arts. The degree of Bachelor of Arts is conferred by the Board of Trustees, after recommendation by the Faculty, upon those candidates who have completed the collegiate requirements. These are as follows: A total credit of one hundred and twenty semester hours in the college courses; at least 31 honor credits, or an average mark in all subjects of C or higher; an acceptable thesis upon some theme related to the major subject of his course, or, as a substitute for the thesis, an advanced course during the senior year. The time required for the fulfillment of these conditions is usually four years.

Master of Arts. The degree of Master of Arts may be conferred upon any graduate of this College, or of any college offering substantially equivalent courses, who shall have completed an approved course of non-professional study equivalent to an additional year of college work, one-half of which, at least, is in a single department or in closely related departments. This work may be done during one year in residence at the College, or in the case of graduates of this College, during two years of non-residence. Examinations are required in all work of the approved course, and a satisfactory thesis upon some phase of the course must be presented at least one month before the close of the college year. Fees for all special examinations and the usual fee for the diploma are required.

PRIZES AND HONORS.

The following prizes are open to competition:

Mrs. John James English Prize Fund. These prizes are paid from the interest of a fund of \$1,500 given by Mrs. John James, of Boston, for the encouragement of English Composition in the College. Each prize will amount to about \$15; the second prize to \$10.

Prizes will be awarded the two successful contestants in the freshman class, on the basis of clearness of style, excellence in punctuation, in sentence and in paragraph structure, as shown in the manuscripts of the freshman year English exercises.

These prizes will be awarded to members of the sophomore and junior classes. The assignment of the prizes will be based on excellence in writing, but the competing compositions may concern themselves with any subjects of general or academic interest. Sophomores or juniors who wish to become candidates for these prizes, should hand their productions to either of the professors in English, on or before May 1.

Prizes will not be awarded in any class for inferior work, or if there are less than twelve contestants.

Class of 1891 Prize for Oratory. A silver cup, valued at \$65, upon which shall be inscribed from year to year, between 1906 and 1915, the names of the winners in the home oratorical contest. The cup is to be the property of the College, and will be kept on exhibition in some suitable place.

J. T. Lewis Prize Fund. This was established by Hon. J. T. Lewis, of Columbus. The annual income of a fund of \$200 will be awarded to the student who prepares the best set of notes and drawings on the biological work of the freshman year. It will not be granted for inferior work.

Class of 1896 Memorial Prize Fund. The income, about \$20, of the Memorial Prize Fund of the class of 1896, will be awarded the successful contestant in a declamatory contest between members of the junior class each year.

Prize Scholarship. To encourage students of special promise in graduate study, a friend of the College offers, as a prize, one year's tuition in the graduate school of either the University of Chicago or the University of Wisconsin. This prize is open to students of History, Economics, Law, Language and Literature, Philosophy, or Education. The award is made by the faculty to the member of the senior class who shows the greatest proficiency in the studies of the undergraduate course and the best preparation for graduate study.

Department Fellowships. The head of each department has the privilege of recommending, for ratification by a vote of the Faculty, one advanced student of high standing as Fellow in the department.

The Rhodes Scholarships. In order to keep this well-known bequest before the minds of present or prospective students, it is briefly mentioned here. Circulars of full information can be obtained at the registrar's office. Any male student, who is a citizen of the United States and unmarried, not

less than nineteen nor more than twenty-four years of age, and who has reached the end of his sophomore year of study, may be a candidate for one of the Wisconsin scholarships. This insures to the winning contestants among the schools of the State a three-year residence in Oxford University, England.

All competitors must be prepared to take an examination in the following subjects: Arithmetic, the Elements of Algebra or the Elements of Geometry, Greek and Latin Grammar, translation from English into Latin, one Greek and one Latin book from authors such as Caesar, Cicero, Livy, Horace, Virgil, Homer, Xenophon, Plato, Sophocles, Euripides, and Demosthenes.

University Fellowship. The University of Wisconsin, through its President, has extended to Ripon College an invitation to appoint one of its graduates each year to a Fellowship in the University. The value of this Fellowship is \$225 a year.

The College Administration

THE COLLEGE YEAR.

The College year is divided into semesters. For the coming year the first semester begins on September 10, 1912; the second on January 27, 1913. A number of courses, complete in themselves, begin in the second semester. Students who enter College at that time, will be able to avail themselves of such courses.

Besides the usual legal holidays, there are two vacations during the year, one at Christmas and one at Easter. The Easter vacation for 1912 begins on Thursday, April 4, at 4:15 p. m., and ends at noon Monday, April 15. The Christmas vacation for 1912 begins on Friday, December 20, at 4:15 p. m., and ends at noon Monday, January 6, 1913. The Thanksgiving recess begins at noon on the Wednesday preceding Thanksgiving Day, and ends at noon on the Monday following.

GOVERNMENT.

The College has few rules governing the conduct of students. In general it is expected that they will conduct themselves in an orderly way, with due regard for the rights of others, and in such manner as will conduce to best work in College.

In matters of general order or common interest, the students are represented by an Advisory Council, which meets with the college officers of discipline. This Council consists of five students, who are selected by the faculty from the whole student body.

The policy of the College toward student activities is to put each under a Board of Control, consisting of a representative of the Board of Trustees, two members of the faculty, and two students. This Board has general oversight of the finances and policy of the activity which it represents. All details, however, are managed by the student officers. This method is employed in the control of the Dormitories, Commons, Oratory and Debate, and Athletics.

Class Records.

Examinations are held at the end of each semester, or at intervals during the semester, in all courses. At the end of each semester the marks are handed in, and the record for that semester is closed. No extension of time for incomplete labora-

tory work, essays or themes can be allowed, unless it is granted in advance by the Registration Committee.

Class standings indicated by letters A, B, C, and D, are passing. If a student fails in a course, credit can be secured only by repeating the course in class. If a student is conditioned in one subject, the condition must be removed by examination taken on the day appointed for this purpose. The date for removing conditions of the first semester is the last Wednesday in February, and for condition of the second semester, the first Wednesday in October.

Reports of standings are sent at the close of each semester to the students' parents.

Absence from Class or Chapel.

Regular attendance is expected on all class and laboratory exercises and on Chapel and Vesper services. If the absences in a given course exceed by one the number of semester credits in that course, the student is immediately dropped from that class, and can return only after being reinstated by the Dean of the College, with the concurrence of the Professor in charge. After being reinstated, a student is dropped for an additional absence. This last rule applies also to absence from town. Fifteen absences from chapel are permitted during a semester, a Vesper service counting as four chapel services. For each absence in addition to the fifteen, half an honor credit will be deducted from the student's honor credits for the semester.

If, for any good reason, a student is excused from chapel, he will be required to make five honor credits in addition to the number required of all students. For a full explanation of the honor credit system see page 23. A list of students marked absent from chapel and vespers will be posted at regular intervals, and any correction must be made within three days.

General Regulations.

A student who is absent from the last recitation period preceding the Christmas or Easter vacation, or the Thanksgiving recess, or from the first recitation following such vacations, will not be allowed to take the regular final examination in the subject missed, but may take it when the next regular examination in the subject is given.

All College bills must be paid or payment arranged satisfactorily with the Treasurer within two weeks after the opening of the semester. All indebtedness to the College must be paid or satisfactorily arranged before a diploma or certificate of standings will be given.

College Publications

THE BULLETIN.

The Ripon College Bulletin is issued six times per year—in January, March, May, July, September, and November. The March issue is the regular catalogue number.

COLLEGE DAYS.

College Days is a weekly publication. It is issued by a board of editors elected by the student body. It is now in its forty-fourth year. It aims to record the various phases of campus life. To this end, it occasionally publishes articles by professors and students, either the records of personal experiences or the results of special investigation. It has aimed to keep in touch with sister colleges, has noted the goings and comings of alumni, and has endeavored to record, in lighter vein, the pleasures and pastimes of the students.

THE CRIMSON.

The Junior Class publishes a Ripon College Annual known as The Crimson. It is a book of college life, dealing, among other things, with the faculty, class and student organizations, social life, and athletics.

Buildings and Equipment

THE COLLEGE BUILDINGS.

Ingram Hall, completed in 1900, and named after one of its principal donors, Mr. O. H. Ingram, of Eau Claire, is the main lecture hall of the College, and contains the College Library. On the first floor are situated the offices, the lecture-rooms, and laboratories of the departments of Biology and of Physics, and also the stack-room of the Library. The second floor is occupied by lecture-rooms, and by the reading-room and office of the Library. On the third floor are the Chemical laboratories and the lecture-rooms of the department of Philosophy and Education.

East College, the first building erected on the college campus, has been entirely remodeled. It now contains the offices of the College, and the studios and practice-rooms of the School of Music. The Young Men's and Young Women's Christian Associations also have rooms in this building.

Middle College, now called Smith Hall, in memory of the late Elisha D. Smith, of Menasha, was opened as a dormitory in 1903. It is heated by steam, lighted by gas and electricity, and thoroughly equipped throughout. Besides the student apartments, this hall contains a reception-room, and in the basement an excellent bowling alley.

West College contains the College Commons. By means of funds provided by the Alumni, the first floor has been made into a thoroughly-equipped modern dining-room. The Co-operative Dining Association, which has charge of the Commons, provides a most excellent quality of board at small cost. The dining-room is large, finished in oak, is well lighted, and has two open fireplaces. There are ample cloak and waiting rooms, and the kitchen and serving-rooms are models of convenience, making it possible to serve the best meals at the lowest expense. This new Alumni Hall adds much to the comfortable living of the students. The second and third floors of West College are used as dormitories for men, and are equipped in the same thorough manner as the rooms in Smith Hall. The dormitory has also a large, pleasantly situated, and attractively furnished common room.

Bartlett Cottage, the Dormitory for women, named in honor of the late Sumner Bartlett, of Oshkosh, is situated at the southwest corner of the campus, just opposite the President's house. It is steam-heated throughout, and is supplied with hot and cold water. The suites for students consist of a study and bedroom, with the heavier pieces of furniture. In addition to these, the building contains a reception-room and a library, a guest-room, and also a kitchen and dining-room for occasional use. The reception-room is at the left of the entrance corridor; the rooms occupied by the resident Faculty member, Miss Simmons, are at the right. Through the generosity of the Advancement Association, the interior of the building has been made practically new within the past two years.

Dawes Cottage. This is a frame building, now used as a dormitory for men, and is also the home of the engineer of the College.

Society Hall. The Old Chemical Laboratory, vacated when Ingram Hall was built, has been remodeled for other purposes. The north room is used for band practice, for debating societies and other men's clubs, on permission from the college office. The south room is used by the department of Mathematics, and is well equipped for the work of mechanical drawing.

The President's House. Dr. Merriman built for himself a large house just south of the College Campus. This house is now the property of the College, and is the residence of the President of the College.

Central Heating Plant. A complete central heating plant has recently been installed. The system results in increased comfort in the buildings, and in a large saving in cost. The steam supply pipes connecting the various buildings with the boilers, are so thoroughly insulated in the conduits, that the waste from radiation is reduced to a minimum. The boilers carry high-pressure steam, and there is room in the boiler house for installations of dynamos for the production of light and power. This heating system has proved a success from every point of view.

The Gymnasium. The Indoor Athletic Field, the central structure of the gymnasium, is now completed. It is of the best type of gymnasium architecture, and offers many unusual advantages for physical training and development.

The central portion of the indoor athletic field is equipped with a basketball floor, 80 by 50 feet. Around the floor is a

running-track, built along modern speed lines, 17 laps to the mile, with an earth floor. This affords sufficient space for early Spring training in all track and field sports. The earth floor can also be used for football and baseball, when the weather prohibits the use of the Ingalls Athletic Park.

The seating arrangement and gallery make it convenient for public intercollegiate athletic sports, and serve the purpose of an auditorium for college events.

The south section of the building contains the shower-baths, locker, rubbing and drying rooms.

The plans for the completed building include two wings. They will contain all the essential features of a modern gymnasium. The first floor of the men's section will be equipped for college club-rooms. The second floor will contain the gymnastic apparatus for calisthenics. The woman's section will be similar, having club-rooms and upper floor gymnasium. Each of the wings will be 90 by 50 feet.

THE COLLEGE EQUIPMENT.

The College Library occupies large central rooms on the first and second floors of Ingram Hall. The main reading-room is on the second floor, and there is also a reading-room on the first floor in connection with the stack-room.

The library, according to the latest accession number, contains 19,573 volumes, exclusive of pamphlets, of which there are about 3,000. The aim of the College in the library has been to get the best books by the best men. The result is an excellent working library, containing standard editions, critical works, books of reference, bound periodicals, etc. There are also several rare and valuable original copies from the early seventeenth and eighteenth centuries, and a few transcripts and reprints of works of earlier date. The library has nearly complete bound sets of the standard American and British magazines, and receives nearly all of the leading journals of a professional or technical character.

In addition to the above library and reading-room facilities on the campus, students have access to the city library, now in the new Carnegie building, one block from the campus. The college library and the city library are largely supplementary, the former being strong in works of reference, the latter naturally furnishing books of more general interest. Both are open with a uniform rule to students and citizens.

The Department of Religious Education has a good collection of appliances for modern religious education, including the leading graded text-books on the Bible, complete sets of the Tissot and Wilde pictures and those of the Presbyterian Board, and numerous books and other materials of value to those engaged in Sunday School work, or preparing for it. The department provides actual work in selecting and preparing materials for the various grades, and in teaching classes in a thoroughly graded school.

The library is maintained in part by the income of a special gift for the purpose from Mr. Andrew Carnegie.

Harry D. Clark Collection. The interest of a fund, raised by the class of 1898, as a memorial to their deceased classmate, Harry D. Clark, is available for the purchase of books. There are 183 volumes in this collection.

Benjamin Franklin Thomas Collection. The Thomas scientific library of physics was willed to the college library by the late B. F. Thomas, of the class of 1874. Dr. Thomas was Professor of Physics at Ohio University. There are about 400 volumes in this collection.

Other special collections in the library are: Clarissa Tucker Tracy Collection (71 vols.); Ripon Oratorical Union Collection (30 vols.); Delta Phi Sigma Collection (10 vols.); John James Collection (44 vols.). These collections are increasing each year.

The Department of Biology occupies the east end of the first floor of Ingram Hall. Its equipment comprises four laboratories, one each for Anatomy, Bacteriology, Physiology, and Histology and Embryology. All are equipped with the best and newest apparatus. The vivarium and the injection rooms are in the basement. Adjoining the laboratories is the lecture-room, arranged conveniently for the work. Storage and preparation rooms adjoin. The equipment increases yearly, and includes, among the various pieces of apparatus, physiological instruments, such as kymographs, capillary electrometers, moist chambers, rheochords, ergographs, inductoriums, muscle and heart levers, manometers, plethysmographs, sphygmographs, tambours, work adders, signal magnets, microscopes, compound and dissecting, camera lucida, paraffin bath, centrifuge, incubator, besides numerous tanks and aquaria with running water. Several new microscopes of the latest pattern have been added recently. The department has also increased its efficiency by securing a new rotary micro-

tome for cutting sections for the microscope, and a new electrical clock for timing delicate experiments. Several hundred dollars' worth of apparatus is in duplicate for student work. This apparatus, as well as the laboratory manual used, is the same as that in use at the Harvard Medical College.

During the past year, the department has added twenty-three fine wax models for the Embryology class. They represent all of the principal stages in the development of the chick embryo.

The Department of Physics is located in the west end of the first floor of Ingram Hall, and occupies the following: A laboratory for electricity, magnetism, and mechanics, one for heat, molecular physics, and sound, and a dark room, besides an office and lecture-room adjoining. The electrical laboratory is furnished with four slate-capped piers brought up from the foundations. These are of great value for delicate work where all jarring effects must be avoided. A good deal of apparatus has been recently added to the equipment of the laboratories. It includes an American milliammeter, a ballistic pendulum for measuring elastic and inelastic impacts, a cathetometer of the best type for measuring vertical distances, two ballistic galvanometers, Michelson's interferometer, and a spectrometer with polarizing attachments. The equipment of this laboratory also includes a successful wireless telegraph instrument, made by one of the students. The laboratory for heat, molecular physics and light is equally well equipped.

The Department of Chemistry occupies the third floor of Ingram Hall; it has a large lecture-room, with a stock-room in close connection. The stock-room is conveniently arranged for chemicals and apparatus. Across the hall are the office library and balance-room, and the laboratories for general chemistry, qualitative, and quantitative analysis. There are also laboratories for organic chemistry and for private research. All laboratories are supplied with hoods and with individual desks, and each desk is furnished with lockers, gas and water. The lecture-room has every facility for demonstration, and the department is well equipped throughout.

Archaeological Collections. The departments of Latin and Greek possess an unusually fine collection of archaeological material. There are several thousand carefully selected photographs and slides, illustrating Greek and Roman history, geography, life and art. Also a small but carefully chosen collection of antiquities of special interest to students of the classics.

There are 250 different Roman coins of the most important reigns of the Empire; more than fifty terra cotta lamps illustrating all the types, many of which are figured; Etruscan, Greek and Roman vases, dating from 750 B. C. to about 300 B. C.; bronze fibulae, keys, letter stamps, bone stili, spoons, dice, etc.; several fine specimens of glass from Greece and Italy; inscribed amphora handles, and numerous other articles connected with the daily life of the ancient Romans.

The Barber Collection of Minerals. The nucleus of this collection was given to the college by the Rev. Geo. W. Barber. It is named after the donor, who, being an Amherst man, collected many of the specimens under Professor Shepard, of that school. This is supplemented by the New Orleans Collection, obtained through the influence of the Hon. E. D. Holton, of Milwaukee, from the New Orleans Exposition; and by the Armstrong collection of 500 minerals and rocks.

In addition to these collections is the "Educational Series of Rocks," furnished by the United States Government, and several valuable specimens from the mining regions of Wisconsin and Michigan.

Nearly 2,000 specimens in all are listed, coming from various parts of the world. Besides this central museum, there are numerous working sets for use in the classes of mineralogy. These sets include hand specimens for study, and tubes of powdered mineral for blowpipe analysis.

Biological Museum. This contains a collection of invertebrates and vertebrates, systematically arranged. The study of the few typical forms of animals studied in the laboratory can thus be supplemented by an investigation of the greater variety of forms to be found in the museum.

An interesting and valuable part of the exhibit is the Congdon collection of birds' eggs. These eggs, representing a large amount of research carried on in Wisconsin and Canada, were collected by Russell T. Congdon, of the class of 1903.

The College Life

STUDENT FELLOWSHIP.

One of the inherent advantages of colleges of the size of Ripon is that students are brought into closer relations with their instructors, and into sympathy with one another. The College is a social democracy. In class-room, at the commons, in the dormitories, and on the campus, the equal rights and equal privileges of all students are fully recognized.

SOCIAL LIFE.

A wholesome social atmosphere pervades the institution. This not only affects the life of the dormitories, but also promotes the social spirit between student and student, and between student and faculty. Class or college functions through the year, sometimes initiated by the students, sometimes by members of the faculty, make the year as a whole contribute largely to the social enjoyment of the students.

RELIGIOUS LIFE.

The College is distinctly Christian, and regards the development of Christian character as its greatest work. It is unsectarian in its management. On entrance, the student names the church of his preference. Lists are sent to the pastors of these churches. Every student is given a definite personal welcome in the church of his choice.

Once each month a special Vesper Service, under college auspices, is held in the Congregational Church. This is made possible by the courtesy of the Church, and the co-operation of the pastor, Mr. Pillsbury. Often an exchange is effected with a minister from Wisconsin or from a neighboring state, who addresses the students on some vital and practical theme.

At other times a layman, prominent in religious work, is secured. The Chapel Service is held four days in each week. Attendance at the Chapel Service and at the monthly Vesper Service is required. All other services are voluntary.

The prayer meeting on Tuesday evening, the Association meetings on Sunday and Thursday afternoons, and the Bible study class, are under the management of the Christian Associations. These associations send delegates to the various

state and national conferences. At the beginning of the college year members of the associations meet all trains, and welcome new students.

ATHLETICS AND PHYSICAL TRAINING.

The College encourages outdoor athletic games among the students. To encourage as many as possible to participate, interclass and dormitory games are arranged. This College is a member of the Wisconsin Intercollegiate Athletic Association, and all games are played under its rules.

The College is fortunate in possessing an excellent athletic field. Recently a quarter-mile cinder-track has been built on the field. There is also ample space in the field for football and baseball.

The Indoor Athletic Field makes it possible to continue such athletic training and games through the year.

By placing the gymnasium work and the training of all teams under the care of a thoroughly-trained specialist, who is a regular member of the college faculty, physical training has been developed to a high degree of efficiency, under the best possible conditions.

General supervision of all athletic interest of the College is now vested in a committee, consisting of the Dean of the College, the Director of Athletics, a member of the Board of Trustees, and the President and Secretary of The Student Athletic Association. The Student Athletic Association includes all the students in its membership.

This committee formulates all rules, appoints managers for the various teams, and is responsible for the athletic policy of the College. All contracts for games are made by authority of the committee, witnessed by the signature of the Dean.

THE YOUNG MEN'S CHRISTIAN ASSOCIATION.

During the formative period of college life there is great necessity for symmetrical development, for a balancing of intellectual with spiritual growth. The College Y. M. C. A. recognized this necessity, and organized for the purpose of aiding this harmonious development. In opening its doors to all young men of the College, the association aims to extend its sphere of influence as far as possible. Although distinctively a student organization, the association has the active support of the faculty, some of them being members, and many leading in the meetings. In order to keep in touch with the larger

movement, the College Y. M. C. A. aims to be represented regularly at the state conventions, and also at the yearly conference of college men held at Lake Geneva.

THE YOUNG WOMEN'S CHRISTIAN ASSOCIATION.

The object of the Young Women's Christian Association is the development of Christian character in its members, and the prosecution of active Christian work, especially among the young women of the institution. The active membership of the association consists of women connected with the College, who are members of the Christian churches. Any woman in the College may become an associate member. The association is affiliated with the international organization.

THE ORATORICAL UNION.

The Oratorical Union, under its present constitution, controls oratory, debate, and the "College Days." Two members of the faculty, together with the President, Vice-President, and the Secretary of the Union, the Editor and Business Manager of the "College Days," and the Chairman of the Debate Committee, constitute a Board of Control, which has general direction of all affairs. The Union holds membership in the Wisconsin Intercollegiate Oratorical Association, and also in the Interstate Oratorical Association.

RIPON COLLEGE GLEE CLUBS.

There are two Glee Clubs in the College: one for the men, known as the Ripon College Glee Club; the other for the women, known as the Cecilian Chorus. Both these clubs are in charge of the Director of the School of Music, Professor Elizabeth Battle Bintliff.

THE COLLEGE BAND.

The College Band furnishes music for athletic contests and other events, such as the "campus sings," etc. Its membership is about twenty. All the uniforms and the fundamental instruments are owned by the College and loaned to the students. No charge is made for the use of these, but members are required to assume a responsibility for proper care of the same while in their possession. The band is an important factor in college life; it affords a means of training and of pleasant recreation for those who play band instruments.

THE DINING ASSOCIATION.

This is a co-operative association of students, for the purpose of furnishing board of good quality at low cost. The association occupies the beautiful Alumni Commons in West Building—quarters well equipped in every particular for the use of the association. The college authorities give special attention to this Commons, audit the books, and give general supervision to its affairs, but the details of its management are in the hands of the Students' Co-operative Dining Association. They elect their own officers.

THE LEAGUE.

This is an organization of the young women who live outside of Bartlett Cottage. Like the organization within Bartlett Cottage, it is intended for unifying the varied yet common interests of its members. A rest-room on the third floor of Ingram Hall has been furnished for them, where it is possible to hold meetings, or to spend a study hour between classes.

General Information

STUDENT EXPENSES.

The charge to the student is but a small part of the cost to the College. The balance of the cost is met by the income of the endowment fund, and by gifts from trustees and other friends of the College.

During the last few years Ripon College has spent a large amount of money in improving the buildings and the furnishings, and in increasing the equipment in the library, and in the science laboratories. Of even greater value to the student is the fact that the faculty has been increased, and the courses of instruction enriched. For this reason, the incidental fee was slightly increased in September, 1908. In view of the value of the courses of instruction, the fine equipment in laboratories, library and lecture-room, and the thoroughly modern conveniences in dormitories and commons, the increase in cost is small, and the total cost to the student exceptionally low.

Tuition, per semester.....	\$10.00
Incidental Fee, per semester.....	21.75

LABORATORY FEES PER SEMESTER.

Physics Laboratory, per unit hour.....	\$1.50
Bacteriology and Embryology.....	7.50
Anatomy, Histology, Advanced Botany....	3.00
Physiology	1.50
Chemistry, four-hour course.....	6.00
Breakage Deposit in Chemistry.....	3.00
Mineralogy	2.50
Archaeology	1.50
Surveying	2.50

ROOM RENT.

Smith Hall, Dormitory for men, with steam heat, hot and cold water, furnished rooms, two men in each room.

Rooms number 102, 103, 105, 106, 201, 203, 205, 300, 301, 303, 305, per semester.....	\$20.00
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Rooms number 101, 107, 202, 206, 207, 302, 306, 307, per semester.....	22.50
Rooms number 100, 108, 200, 208, 308, per semester	25.00
West College, Dormitory for men, with steam heat, hot and cold water, furnished rooms, two men in each room, per semester	20.00
Dawes Cottage, Dormitory for men, with steam heat, hot and cold water, furnished rooms, two men in each room, per semester	15.00
Bartlett Cottage, Dormitory for women, with steam heat, hot and cold water, furnished rooms, electric lights in each room, per semester.....	24.00

Dormitory rooms are furnished with all necessary heavy furnishings. Students will bring their own bedding, pillows, rug for the floor, and such ornaments as they desire for their rooms. All buildings are heated with steam, furnished with hot and cold water, gas and electricity. Price of room rent in Smith Hall does not include cost of light in the rooms.

All bills for tuition and room rent must be paid at the beginning of each semester. Room rent and laboratory fees cannot be refunded to students who leave dormitories or laboratory classes during the semester.

If a student leaves college for good reason before the middle of a semester, one-half his college bills will be refunded. No refund will be made to a student who remains in attendance more than half a semester.

The total cost for the student varies. The minimum expense will be within the reach of students of limited resources, while others may easily make provision for themselves in accordance with their means.

BOARD.

Board is furnished at the College Commons in the West Building. During the present year it has cost \$3.25 a week. The cost is kept at the lowest possible figure, and is divided equally among the members of the Dining Association.

There are other boarding clubs and private houses that will furnish board to students at reasonable prices.

STUDENT AID.

A standing committee of the faculty acts as an employment bureau, and is always ready to assist students desiring employment. Faithful, worthy students, who are willing to work, need not abandon their course of study for lack of money. Many of the most successful graduates of the College have helped themselves in this way. Advanced students of high standing have frequent opportunity to do private teaching, and citizens of the town are ready to employ students in various capacities.

There are a few scholarships to be granted, as a reward of merit to successful students.

SPECIAL FUNDS.

The College has available several funds for use as indicated below. Anyone desiring to be a candidate for the benefits of any of these funds should write to the Registrar for blanks to make application therefor. These applications will be considered by the faculty committee on scholarships, and the benefits will be distributed where they will appear to accomplish the greatest good.

Rufus Dodge Fund. The late Rufus Dodge, of Beaver Dam, left the College a legacy of \$9,000 as a permanent fund to aid young women of limited means in getting an education. The interest of this fund is available each year for distribution among such students for this purpose, according to their need.

Philo Sherman Bennett Scholarship Loan Fund. Mr. Philo S. Bennett, of New Haven, Connecticut, left \$10,000 in his will to Wm. J. Bryan, as trustee, to divide among several colleges, in his discretion, as a fund to help worthy young men. \$500 of this fund was given in June, 1905, to Ripon College, the conditions being that the same be invested as a perpetual fund, the income only to be loaned to worthy young men in need, who shall be honor bound to return the loan; and when so repaid, it shall be re-loaned in the same manner.

The principal fund is known as the Philo Sherman Bennett Fund. The income from this fund, the amount which is available for student use, is called the William Jennings Bryan, Trustee, Fund.

Sumner T. Bartlett Scholarship Fund. The sum of \$1,000 was given by Mrs. Lucy Bartlett, of Oshkosh, Wisconsin, for a permanent scholarship. The condition of the scholarship is

that one student at a time, forever, shall be admitted to Ripon College free of tuition, such student to be designated by the college faculty, and to be one studying for the gospel ministry or for special missionary work.

Rev. E. W. Cook Scholarship Fund. The sum of \$500 was given by the Rev. E. W. Cook, of Ripon, for the purchase of a scholarship. Free tuition is to be granted to one student at a time from the income of this fund, in perpetuity.

O. W. Van Vechtin Student Loan Fund. This was the gift of O. W. Van Vechtin, who presented to the President \$100 as a loan fund, to be under the control of the President, and to be loaned to worthy students, and to draw no interest while the borrowers are in college, but from date of leaving college to draw interest at the legal rate. The interest accruing may be added to the fund or given to students, at the President's discretion.

David Whitcomb Scholarship Fund. \$1,000 was given by David Whitcomb, of Worcester, Massachusetts, for the purchase of a permanent scholarship, the income of which fund is to be used annually to aid needy and worthy students. By resolution of the Board of Trustees, June 20, 1885, the income is appropriated to payment of necessary term bills of young men who shall be nominated by the faculty for such credit, the sons of missionaries and ministers to be preferred, and the amount of appropriation to each pupil to be determined by the faculty.

Alumni Association, 1868, M. W. Pinkerton Memorial Fund. This fund was collected by the Alumni Association as a memorial to M. W. Pinkerton, of the class of 1868. Mr. Pinkerton gave his life to the cause of Missions in connection with the work of the American Board in Africa. Up to this time, the fund has been invested for the Association by the College Treasurer, who has had no responsibility concerning it, except that of collecting the interest, and paying it to the Treasurer of the Association.

At the annual meeting of the Association in June, 1910, by a formal vote, the fund was turned over to the College, to be used according to the general intent of the givers, but without further responsibility to the Association.

Class of 1898 Harry D. Clark Memorial Fund. This is a fund credited to the class of 1898, as a memorial to their deceased classmate Harry D. Clark. The interest is to be used for the purchase of books for the library.

Class of 1901 Owen C. Rowlands Memorial Art Fund. The class of 1901 has provided a special fund, the interest of which is to be used for art decorations. It is a memorial to Owen C. Rowlands, a former member of the class, now deceased.

COMMITTEE ON RECOMMENDATIONS.

The committee on recommendations renders assistance to graduates seeking employment, and to employers. No charge is made for this service, and the committee makes special effort to find the position for which the applicant is prepared. School boards and others employing college graduates can depend upon the faithfulness of the recommendations given.

The call for college graduates as teachers is increasing each year. All graduates and friends of the College are asked to co-operate with this committee by notifying it of vacancies.

The School of Music

The School of Music offers extended courses in the practical and theoretical study of music, designing to fit students for the professional musical life. The special purpose of instruction is to produce musicians who shall combine sound intellectual training with symmetrical development of the musical faculties. To this end all its work is planned. The regular courses are for those who wish to complete work leading to graduation; but those who wish to pursue only partial courses are also admitted. Preparatory courses have been arranged for piano, violin, and voice, so that the student who is only a beginner may find opportunity for study. The emphasis will be placed on thoroughness of work, whether in the elementary or in the advanced grade.

COURSES OF STUDY.

The following outlines of courses of study in the several departments of the School of Music may be varied to meet the needs of individual students.

PIANOFORTE.

Preparatory Course.

Studies in position and touch. Elementary technic. Major and minor scales in slow practice. Etudes by Burgmuller, Brunner, Duvernoy, Heller, Lecoupey, Loeschhorn, Schytte. Sonatinas by Clementi, Kuhlau, Reinecke, and others. Pieces to suit the grade.

First Year.

Mason Technic, major and minor scales and arpeggios. Etudes by Loeschhorn, Czerny, Schytte, Heller, Bach, Little Preludes and Fugues; Sonatas by Haydn, Mozart. Modern pieces. Memorizing.

Second Year.

Mason Technic. Etudes by Cramer, Turner, Heller. Bach Inventions. Sonatas by Mozart, Beethoven, Weber. Songs without Words, Mendelssohn. Pieces by Schumann, Chopin, Schubert, Raff, Grieg, Godard, Chaminade. Memorizing.

Third Year.

Scales in double thirds and sixths. Kullak's Preparatory Octave School. Etudes by Moscheles. English Suites, Bach; Sonatas by Schubert, Weber, Beethoven; Fantasias, Impromptus, etc., by Raff, Mendelssohn, Schubert, Chopin, Schumann, Concertos by Mozart and Mendelssohn. Concert pieces by Rubinstein, Grieg, Moszkowski, MacDowell, Godard, Schytte, Schuett, Sinding. Memorizing.

Fourth Year.

Kullak's Octave School. Clementi's Gradus ad Parnassum. Tausig's Daily Studies. Etudes by Chopin, Henselt, etc. Preludes and Fugues, Bach. Sonatas and Concertos by Beethoven, Chopin, Grieg, MacDowell, Saint-Saëns, etc. Concert pieces by Liszt, Chopin, Schumann, Rachmaninoff, Alkan, Arensky, and other modern composers. Memorizing.

ORGAN.

First Year.

Rink and Dunham, Organ Schools.

Buck Pedal Phrasing Studies. Bach, Little Preludes and Fugues. Trios by Rheinberger. Easy pieces by Guilman, Merkel, Batiste.

Second Year.

Rink and Whiting, Preludes and Postludes. Bach, Preludes and Fugues. Sonatas by Guilman, Rheinberger, etc. Mendelssohn, Preludes and Fugues. Modern pieces.

Third Year.

Bach Chorales, Preludes and Fugues. Sonatas by Guilman, Rheinberger, Mendelssohn. Modern pieces.

Fourth Year.

Bach Trios, Preludes and Fugues. Sonatas by Mendelssohn, Rheinberger, etc. Concert pieces by classic and modern composers. Practical work in accompanying church services and oratorios.

VIOLIN.**First Year.**

Method or School selected according to age and talent of student. Studies by Hofmann, Wohlfahrt, Hermann. Easy Pieces and Duets by Pleyel, Papini, Dello, Lehman, etc. Particular attention given to correct position, intonation, tone, and bowing.

Second Year.

Continuation of First Year Method. Scale Studies by Schradieck and Blumenstengel. Etudes by Kayser, Dont and Mazas. Simple sonatas. Solos by Leonard, Dancla, Böhm, Demuth, Sitt, Elgar.

Third Year.

Schradieck's School of Technic. Etudes by Kreutzer and Fiorillo. Sonatas by Mozart. Solos by Alard, Drdla, De Beriot, Wieniawski, Danbe.

Fourth Year.

Caprices of Rode. Concertos by Viotti, Rode, De Beriot, Spohr. Solos by Sarasate, Bruch, Dvorák, Vieuxtemps, and modern composers.

VOICE.

The aim of this department is:

I. The establishment of a pure tone in which there shall be resonance, volume, flexibility, and expression. This pure tone is to be acquired by means of perfect breath control, open throat and equalization of registers.

II. A perfect blending of tone and word, which results in the clear-cut enunciation desired by performer and listener.

III. The art of phrasing; versatility in style.

IV. Interpretation of songs, sacred and secular, and arias from oratorios and operas.

First Year.

Tone-Placing, Blending of Registers.—Dr. Edward S. Kimball's Exercises; Henneman's 101 Exercises; Sieber Op. 92-96.

Flexibility.—Lutgen Exercises in Velocity; Sieber, Op. 42-43; Marzo's Preparatory Course.

Vowel and Consonant Work.—Vaccai Italian Exercises; Sieber, 92-96; "Vowel Songs."

Phrasing.—Concone, Op. 9; Easy songs for application of principles learned.

Second Year.

Marzo, Book I.; Sieber, Op. 45; Marchesi Italian Exercises; Sieber, Op. 30-35; Concone, Op. 10. Songs, sacred and secular, of the older Italian and German composers and of the best modern composers.

Third Year.

Marzo, Art of Vocalization, Books II., III.; Sieber, Op. 30-35; Concone, Op. 12; Study of the classics and arias from oratorios.

Fourth Year.

Bordogni, II., III.; Aprile Exercises. Concert songs from classic and modern composers. Arias from the operas of German, Italian and French Schools.

THEORY AND HISTORY OF MUSIC.

The aim of the courses in these branches of music education is to give the student an intelligent conception of music as a science, aiding him to become a musician capable of understanding and interpreting a wide range of music, and to lay a broad foundation for later studies which he may undertake in the field of composition. This work will be given in classes only. The outline of the course is as follows:

Elementary Theory.

A. Sight-reading; ear-training; elementary Harmony, including the study of intervals, notation and terminology.

Choral.

B. Advanced Sight-reading preparatory to and including the performance of the standard cantatas and oratorios. Through the year. Two hours.

Musical Appreciation.

C. This course will include the study of the principles of musical form, the development of music in its various branches, the stories of the standard oratorios and operas, and some analytical study of the larger instrumental compositions for the

piano, violin and orchestra, such as the sonata, overture and symphony. There will be lectures and illustrations. The purpose of the course is to awaken the musical taste, and develop the faculty of listening and hearing intelligently. This course is supplemented by later courses in Musical Form and History.

Through the year. One hour.

Theory.

D. Harmony, first year. Ear-training.

Through the year. Four hours.

Theory.

E. Harmony, second year. Analysis of musical form.

Through the year. Four hours.

Theory and History.

F. Counterpoint. Musical History.

Prerequisite: Courses A and D.

Through the year. Four hours.

PUBLIC SCHOOL MUSIC.

This course provides instruction for those students who wish to become teachers or supervisors of music in the public schools. It may be completed in two years. The outline follows:

First Year.

Course A.—Rudiments of Music, Terminology, Notation and Sight-reading.

Course B.—Advanced sight-reading choral class, including the study of standard cantatas and oratorios.

Course D.—Harmony, first year. Ear-training.

One-half Course F.—Musical History. Voice culture.

Second Year.

Methods of Teaching. Practice Teaching.

Course E.—Harmony, second year. Analysis of Musical Form.

Course C.—Musical Appreciation. Pedagogy. Voice Culture or Piano.

Students in this department must have met the college entrance requirements in English before obtaining the certificate.

REQUIREMENTS FOR GRADUATION.**Diploma Course.**

Candidates for graduation must complete academic work equivalent to a high school course and including the following subjects:

History 2 units, Science 1 unit, Algebra 1 unit, German 2 units, French 1 unit, English 3 units. In addition to these subjects, English 1 is required.

A certificate of entrance credits should be sent in advance, or presented at time of entrance.

Candidates for graduation must give a public recital, during the last year, of each course which they complete.

Degree of Bachelor of Music.

During the past year, a new course of study leading to the degree of Bachelor of Music has been approved by the Board of Trustees of Ripon College.

The requirements for entrance are the same as for College entrance. The practical preparatory musical work must be completed to the work of the first year as outlined in the Catalog. Two courses in practical music must be pursued, one of which must be the piano. The other course may be either organ, violin, or voice, as elected. The student will be required to do three years' work in the Theory and History of Music, and to carry four hours' work in some College subject each semester for the four years it takes for graduation. The Freshman English is required. Beyond that the student may elect his literary work.

DAY PUPILS.

To meet the demands for musical instruction on the part of the residents of Ripon and vicinity, who have no time or desire to take any of the regular courses, or to take studies in the College, the following arrangements may be made: Pupils will be received from their homes, who shall simply report to the teacher for instruction at appointed hours, and have no further connection with the College. Tuition will be the same as for the other students of the School of Music, with the exception of the incidental fee, from which they shall be exempt.

Musical activities are planned which will be of interest and profit. The School of Music will be made the center of all musical life. Everything of real value pertaining to the subject of musical education and advancement will be consid-

ered and encouraged by the Director. The hearty co-operation of all who are interested in the best of music is asked, that the result may be one which will not only benefit the School of Music and the College, but will add an influence for good to the life of the community.

TUITION AND EXPENSES.

In the matter of expenses, a School of Music in a small city like Ripon has great advantages to offer over those in larger cities. The expenses of living are less, for both teacher and pupil. The best instruction can be given, at prices which could not be afforded in a larger place. The cost of board and room is very reasonable, as compared with prices in many places.

A schedule of expenses is given below.

Tuition, per semester, payable in advance, two lessons per week.

Private half-hour lessons:

Piano	\$35.00
Pipe Organ	40.00
Violin	35.00
Voice	35.00

Classes in Theory, Musical Appreciation and History, Choral work.

Course A is open to all students, free of charge.

Course B. This class is open to students of the College, School of Music, and also to citizens of Ripon, who enjoy the study of the Standard Cantatas, Masses or Oratorios.

Course D	\$10.00
Course E	10.00
Course F	10.00
Methods of Teaching Public School Music, in class	5.00

Use of Piano for Practice:

One hour a day, per semester.....	4.50
Two hours a day, per semester.....	7.50
Additional hours, each, per semester.....	1.50
Use of the Church organ, for practice, per hour25
Use of the pedal organ in the chapel, for practice, per hour.....	.20
Incidental fee, per semester.....	4.00

The incidental fee gives the student the privilege of taking, without further charge, one of the required college studies.

A fee of \$1.00 for Artists' recitals is charged each music student. This fee covers the price of tickets to all recitals and concerts of the School of Music, except the Oratorio Concerts.

The orchestra of the School of Music will hold regular rehearsals every week. Membership in this orchestra is open to students of the School of Music and College, or citizens of Ripon. This is a fine opportunity for those who play orchestral instruments.

Rooms may be rented in the dormitories for from \$18.00 to \$24.00 per semester. Board can be obtained at the Commons for \$2.75 per week. Other boarding places can be found, whose prices are reasonable. All bills for tuition must be paid at the beginning of the semester, or special arrangements made with the Director.

This must be done, and the name registered, before lessons can be assigned. No deduction will be made for absence from lessons except in cases of protracted illness, when the loss will be shared equally by the School of Music and the student, on the written order of the Director. All non-resident students of the School of Music are subject to the regulations of the College.

MISCELLANEOUS ITEMS.

No prices will be made by the lesson or for any time less than a half semester.

Pupils from out of town may arrange for an hour (private) lesson once a week instead of half hours twice a week.

Pianos for practice can be rented at the School of Music or in the town.

No student of the School of Music will be allowed to take a musical part in any public exercises without permission from his teacher.

Semesters of the School of Music commence with those of the College, and its holidays are the same as those observed by the College.

All persons desiring musical instruction are encouraged in every possible way; graduates and others who have been students of Ripon School of Music will be recommended to fill suitable positions whenever it can be conscientiously done.

List of Students

GRADUATE.

James Elton Imrie.....Roberts

SENIORS.

Charles Bullen Atwood.....Milwaukee
 Arthur Carroll Barry.....Montello
 Theodore Hieronymus Bast.....Rockfield
 Horace Abram Bumby.....Ripon
 Roy Harry Cameron.....Oshkosh
 Maude Elizabeth Cragg.....Madison, N. Y.
 Claude Henry Cragoe.....Oakfield
 Mildred Irene Dockery.....Fond du Lac
 Genevieve Marion Dopp.....Wild Rose
 Christine Elizabeth Draeger.....Fond du Lac
 George Lauren Duffie.....Ripon
 Sigrid EsbensenOsseo
 William Lee Finnegan.....Lavalle
 Frances Mary Foote.....Ripon
 Edward Daniel Fruth.....Fond du Lac
 Llewellyn JonesCambria
 Corinna Albertina Kirchgeorg.....Ripon
 Ellis Llewellyn Krause.....Ripon
 Anna Luella Larkin.....Rush Lake
 Ethel Emma Lyon.....Sawyer
 Eileen Agnes Miller.....Brandon
 James Clarence Mutch.....Ripon
 Glen Raymond Otis.....Apollonia
 Humphrey William Owen.....Nevin, North Wales
 Perry Sheldon Pray.....Fond du Lac
 Albert Jacob Stelter.....Ripon
 William Halvor Taylor.....Two Rivers
 Carl Wesle Utgard.....New Richmond
 Robert Vivian Young.....Beaver Dam

JUNIORS.

Helen Irmagard Chittenden.....Ripon
 Bert Llewellyn Choate.....Fond du Lac
 William Henry Davies.....Cambria
 Rowland EvansCambria
 Charles C. Finnegan.....New Richmond
 Lowell Pierce Goodrich.....Ripon
 Louis Encking Graf.....Ripon

Eleanor May Grant.....	Watersmeet, Mich.
Carl Fred Hanske.....	Kiel
Fred Herrmann.....	Green Bay
Mae Augusta Holiday.....	Oshkosh
Benjamin Franklin Howery.....	Black Earth
Jane Blodwen Jones.....	Milwaukee
Angeline Persis Jones.....	Milwaukee
Louis Kornder	Rockfield
Belle Le Claire.....	Oconto
William Hinslea Lyon.....	Brandon
Elizabeth Pelagia Meshynski.....	Ripon
Thomas Smith Murrish.....	Cambridge, Ill.
Alma Helen Nohr.....	Ripon
Gordon Francis O'Connor.....	Fond du Lac
Edgar Phillip Rosenthal.....	Phillips
Clarence James Rottmann.....	Ripon
Jeanne Roy	Wausau
Adele Fredericka Schaar.....	Fond du Lac
Robert Albert Shafer.....	Rosendale
Ray Albert Sorenson.....	Rhineland
Alfred De Lloyd Sutherland.....	Fond du Lac
Harry Albert Swartz.....	Oshkosh
Mary Elvira Weeks.....	Oshkosh
John Williams	Milwaukee
Hugh Otis Worthing.....	Oakfield

SOPHOMORES.

Ray Morse Atcherson.....	Tomahawk
Lelia Etta Barber.....	Black Earth
Arthur Earl Beauchamp.....	Jacksonville, Ill.
Henrietta Belden	Ripon
Ruth Hazel Brewer.....	Ripon
Olive Marian Burnside.....	Ripon
Carl Susan Cragoe.....	Oakfield
Will Robert Davies.....	Cambria
Donald Wayne Densmore.....	Markesan
Lewis Edward Dunkel.....	Phillips
Mary Bernice Gowell.....	Norrie
Jeannette Hamilton	Berlin
Eva Ina Holiday.....	Oshkosh
James Jenkins	Berlin
Edwin Clarence Johnson.....	Stoughton
Edgar Thomas Jones.....	Pickett
Irma May Knight.....	Markesan
Shirley Faye Knight.....	Markesan

Clarence Arthur Kopp.....	Eau Claire
Elwyn Busian Krause.....	Ripon
Alta Lawrence	Ripon
Charlotta Beatrix Liebman.....	Fort Atkinson
Arthur John Martin.....	Sheboygan
Fred Maynard	Sheboygan
Francis Merkatoris.....	Green Bay
Marland Boyd Millard.....	Markesan
Hugh Guy Miller.....	Markesan
Ruby May Morgan.....	Randolph
Duane Lansing Peterson.....	Green Bay
Stanley Moyer Peterson.....	Green Bay
Ida Margaretha Pleuss.....	Brandon
Emil Edward Prellwitz.....	Beaver Dam
Robert Elliott Preston.....	Ripon
Byron James Rock.....	Plymouth
Ruth Lillian Rottmann.....	Ripon
Frank Rueping.....	Fond du Lac
Ray Edwin Searle.....	Ripon
Dan Albert Shaffer.....	Almond
Edwin Jefferson Smith.....	Belgrade, Minn.
Helen Annette Smith.....	Ripon
Carol Eloise Sweet.....	Fond du Lac
Lester Frank Thomas.....	Beaver Dam
Bernard Thompson	Kilbourn
Ruth Evelyn Van Kirk.....	Ripon
Albert James Walker.....	Markesan
James Roland Wedge.....	Waupun
Arthur Henry Wegel.....	Fond du Lac
Walter Lincoln Wood.....	Grand Rapids
Lillian Anna Zobel.....	Ripon

FRESHMEN.

Hazel Marie Atwood.....	Trempealeau
Benjamin Cyrus Benson.....	Rock Island, Ill.
Glenn Thomas Bradford.....	Rock Island, Ill.
Herbert Busse	Omro
William Chase Carpenter.....	Plymouth
Lawrence Anthony Carroll.....	Sparta
Harold Cooke Chambers.....	Ripon
Leona Letitia Clark.....	Portage
Leo Francis Crane.....	Tomahawk
Jessie De Both.....	Green Bay
Deloraine Keith Dunlap.....	Ripon
Harry Falconer	Pardeeville

Louis Burwell Farvour.....	Ripon
Charles Robert Finnegan.....	Lavalle
Harry Yates French.....	Montello
Gustav Hildebrand	Sheboygan
Milton Herman Hostman.....	Plymouth
Harold Howard.....	Fort Atkinson
Thomas Neubern Hughes.....	Rio
Martha Humphrey.....	Wild Rose
Ida Johnson	Phillips
Eleanor Hardy Keller.....	Fond du Lac
Henry Kitner.....	Jacksonville, Ill.
George John Krebs.....	Fort Atkinson
Norman Frederick Kuether.....	Merrill
Lyle Nathan Lane.....	Phillips
Clarence Gillingham Leaper.....	Green Bay
Avis Winnefred Linderman.....	Ironwood, Mich.
Wilfred Murray Lucas.....	Phillips
Harry John McNicholas.....	Plymouth
Julian Yerkes Malone.....	Jacksonville, Ill.
Katharine Jean Middleton.....	Hyde Park, Mass.
George Mitchell	Ripon
Clyde Spencer Morgan.....	Oakfield
Ross Davis Mowry.....	Jacksonville, Ill.
Bessie Murray	Ripon
Martha Jean Mutch.....	Elroy
Jens Emil Nelson.....	Baldwin
Clare O'Donnell	Montello
Clarence Ferdinand Otto.....	Seymour
Emma Owen	Cambria
Frank Joseph Paluka.....	Princeton
Norman Beachem Payne.....	Eau Claire
Robert Whitcomb Perry.....	Oconto
*Minnie Ellena Peterson.....	Spalding, Mich.
Eloise Naomi Pinch.....	Rosendale
Harold Byron Pitcher.....	Ripon
William Hall Preston.....	Ripon
*Jennie Isabelle Safford.....	Omro
Chester Arthur Shortt.....	Oakfield
Margaret Helen Smith.....	Tomah
*Litta Marie Stone.....	Ripon
*Frances Emery Stuart.....	Augusta, Me.
Hampton Sweet.....	Fond du Lac
Dajad Mesrop Terlemezian.....	Van, Turkey
Jennie Mae Waterman.....	Elroy
Florence Blaine Williams.....	Waupun

Garvin Daniel Williams.....	Cambria
Irene Lillian Wooster.....	Ripon
George Reed Young.....	Jacksonville, Ill.

* Music students who have full entrance credits, but carry less than twelve hours' work.

SUB-FRESHMEN.

John Sherman Barthorpe.....	Fox Lake
Charles De Greef.....	Big Stone, S. D.
Marcus John Horstmeier.....	Sheboygan
Leroy Carroll Neddersen.....	Oshkosh
Fred Albert Piehl.....	Fond du Lac

SCHOOL OF MUSIC.

Max Alberts	Berlin
Ruth Florence Bennett.....	Black Earth
Edward Boese	Ripon
*Ruth Hazel Brewer.....	Ripon
Alice Brooks	Waupun
Carroll Brooks.....	Green Lake
Horace Brooks.....	Green Lake
Ida Emilie Buchholz.....	Ripon
Mrs. Fred Burlingame.....	Ripon
Charlotte Clement	Berlin
*Claude Henry Cragoe.....	Oakfield
Pearl Davison	Ripon
*Jessie De Both.....	Green Bay
*Sigrid Esbensen	Osseo
Mrs. Ferdinand Eversz.....	Ripon
Nina Marie Faustman.....	Ripon
*Frances Mary Foote.....	Ripon
*Florence Frost	Almond
Harriet Gibbs	Ripon
*Harriet Jewell Giddings.....	Fond du Lac
Elsa Magdalene Goettmann.....	Oshkosh
Herbert French Hancox.....	Chicago, Ill.
Bertha Harris	Denver, Colo.
Emma Haseltine	Ripon
Hazel Hawley	Berlin
Elnora Hill	Ripon
Clara J. Hoyer.....	Princeton
Iva Holiday	Oshkosh
*Martha Humphrey.....	Wild Rose
*James Jenkins	Berlin
*Edgar Thomas Jones.....	Picketts
Clara Kaiser	Ripon

Mary Kaiser	Ripon
*Eleanor Hardy Keller.....	Fond du Lac
William Kennedy	Ripon
Mabel Lucile Krebs.....	Ripon
Russell Lincoln	Ripon
John Loshinski	Princeton
*Wilfred Lucas	Phillips
Audrey Mahon	Ripon
Ella Meyer	Ripon
Jennie Miller	Brandon
*James Clarence Mutch.....	Ripon
Minnie Ellena Peterson.....	Spalding, Mich.
*Eloise Naomi Pinch.....	Rosendale
Maude Pillsbury	Ripon
Edna Pinkerton	Brandon
Florence Lillian Polk.....	East Liverpool, Ohio
*Robert Preston	Ripon
*William Preston	Ripon
Eunice Pynch	Ripon
Mrs. Louis Pynch.....	Ripon
Louise Marie Reichmuth.....	Ripon
Margaret Robinson.....	West Rosendale
Dora Runals	Ripon
Jennie Isabelle Safford.....	Omro
Frances Luella Savage.....	Waupun
Lulu Sherwin	Brandon
Morrison Sims	Brandon
*Helen Annette Smith.....	Ripon
Irene Smith	Brandon
*Helen Louise Sniffen.....	Spring Valley, N. Y.
*Litta Marie Stone.....	Ripon
*Frances Emery Stuart.....	Augusta, Me.
Herbert Thada	Ripon
Jessie Thomas	Ripon
Margaret Thomas	Ripon
Blanche Thompson	Ripon
Isabel Wagner	Sheboygan
Lillie Werth	Markesan
Jessy Wilson	Ripon
Rose Wilson.....	Ontonagon, Mich.
*Irene Lillian Wooster.....	Ripon
Mrs. John M. Wright.....	Ripon
*Lillian Zobel	Ripon
Olga Zobel	Ripon

* College students taking music.

Summary of Attendance

	Men	Women	Total
Graduate	1	...	1
Seniors	19	10	29
Juniors	21	11	32
Sophomores	31	18	49
Freshmen	40	20	60
	<u>112</u>	<u>59</u>	<u>171</u>
Sub-Freshmen	5	...	5
Music	16	60	76
	<u>133</u>	<u>119</u>	<u>252</u>
Names counted twice.....	7	15	22
Corrected total.....	<u>126</u>	<u>104</u>	<u>230</u>

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Ripon, Wisconsin



1850-1913

RIPON COLLEGE BULLETIN

Catalogue
1912-1913



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College Calendar

1913.

January	27, Second Semester begins.....	Monday
March	20, Spring Vacation begins at 4:15 p. m.....	Thursday
March	31, Spring Vacation ends at noon.....	Monday
June	8, Baccalaureate Sermon	Sunday
June	9, Annual Meeting of the Board of Trustees.....	Monday
June	10, Annual Meeting of the Alumni.....	Tuesday
June	11, Forty-seventh Annual Commencement....	Wednesday
September	8, 9, Registration for First Semester.....	Monday, Tuesday
September	10, Lectures and Recitations begin.....	Wednesday
November	26, Thanksgiving Recess begins at 4:15 p. m..	Wednesday
December	1, Thanksgiving Recess closes at noon.....	Monday
December	19, Christmas Vacation begins at 4:15 p. m.....	Friday

1914.

January	5, Christmas Vacation ends at noon.....	Monday
January	14, Registration for Second Semester.....	Wednesday
January	23, First Semester ends.....	Friday
January	26, Second Semester begins.....	Monday
March	20, Spring Vacation begins at 4:15 p. m.....	Friday
March	30, Spring Vacation ends at noon.....	Monday

Board of Trustees

OFFICERS.

SILAS EVANS, President of the College, ex-officio President.

ALBERT G. FARR, Vice-President.

SAMUEL M. PEDRICK, Secretary.

JOHN W. WRIGHT, Treasurer.

HONORARY MEMBER.

F. J. LAMB, Lawyer.....Madison

TERM EXPIRES 1913.

JOHN W. WRIGHT, President Ripon Knitting Works.....Ripon

FREDERICK SPRATT, Cashier First National Bank.....Ripon

FRANK K. SANDERS, President Washburn College..Topeka, Kans.

GEORGE M. PAINE, President Paine Lumber Company....Oshkosh

JAMES L. STONE, Cashier German National Bank.....Ripon

W. B. FOSTER, President Mattice-Foster Co.....Ripon

TERM EXPIRES 1914.

WILLIAM J. STARR, Lumberman and Manufacturer.....Eau Claire

SAMUEL M. PEDRICK, Lawyer.....Ripon

A. E. THOMPSON, Lawyer.....Oshkosh

FRED W. ROGERS, Real Estate and Insurance.....Milwaukee

L. H. KELLER, General Superintendent Wisconsin Congrega-
tional AssociationMadison

J. B. BARLOW, JR., President Barlow & Seelig Manufacturing
Co.Ripon

TERM EXPIRES 1915.

O. H. INGRAM, Lumberman and Banker.....Eau Claire

FREDERICK W. UPHAM, President of Board of Review, Cook
County, Illinois; of Upham & Agler; of Wisconsin Oak
Lumber Company; and of City Fuel Company.....Chicago, Ill.

W. H. HATTON, Lumberman and Manufacturer.....New London

ALBERT G. FARR, of Harris, Forbes & Co., Boston, Mass.,
and of N. W. Harris & Company, Incorporated, New York,
and of the Harris Trust and Savings Bank.....Chicago, Ill.

D. D. SUTHERLAND, Lawyer.....Fond du Lac

WILLIAM R. DAWES, Cashier Central Trust Company of
IllinoisChicago, Ill.

STANDING COMMITTEES.

EXECUTIVE COMMITTEE—Messrs. A. G. Farr, F. L. Stone, Samuel M. Pedrick, F. Spratt, J. W. Wright, W. B. Foster, and J. B. Barlow, Jr.

COMMITTEE ON INSTRUCTION—Messrs. Rogers, Farr, Sanders, Starr, and Barlow.

COMMITTEE ON GROUNDS AND BUILDINGS—Messrs. Foster, Stone, and Paine.

AUDITING COMMITTEE—Messrs. Hatton and Sutherland.

COMMITTEE ON INVESTMENTS—Messrs. Wright, Pedrick, Spratt, and Stone.

COMMITTEE ON HONORARY DEGRESS—Messrs. Ingram, Keller, and Thompson.

SPECIAL COMMITTEE ON FINANCE AND ENDOWMENT—Messrs. Ingram, Farr, Starr, Dawes, and Upham.

The President of the College is, ex officio, member of all committees.

Officers of Instruction

- SILAS EVANS, A. M., D. D.....309 Seward St.
 A. B., Ripon College, 1898. A. M., Princeton University, 1900;
 B. D., Princeton Seminary, 1901; D. D., Carroll College, 1911;
 LL. D., Lawrence College, 1912; Professor of Philosophy,
 Hastings College, 1901-03. Professor of Philosophy and Pas-
 tor of the College Church, Park College, 1903-09. Professor
 of Hebrew Literature, University of Wisconsin, 1909-10.
 Ripon College, 1910.
- FRANK MORTON ERICKSON, A. M.....529 Woodside Ave.
 Dean and Wilcox Professor of Classics.
 A. B., Wabash College, 1892. A. M., University of Chicago,
 1895. Student of Archaeology, Athens, Greece, 1900. Teacher
 of Greek and Latin, Highland University, 1892-94. Member
 Graduate School, Harvard University, 1906-7. Ripon College,
 1895.
- MARY CORINTHIA HARWOOD, A. M.*.....121 Thorn St.
 Dean of Women and Professor of French and German.
 B. L., Lawrence University, 1888; A. M., Lawrence University.
 Student in France and Germany, 1891-93, 1901-2, 1904.
 Assistant Principal, Traer (Ia.) High School, 1888-90. In-
 structor in French and German, Grafton Hall, Fond du Lac,
 Wis., 1893-94. Student in France, 1907. Ripon College, 1895.
- OLIVER JONES MARSTON, A. M.*.....116 Scott St.
 Professor of Political Economy and Sociology.
 A. B., Greer College, 1898; A. M., Greer College, 1899. Grad-
 uate Student, Johns Hopkins University, 1898-99. Graduate
 Student, University of Wisconsin, 1899-1902. Instructor in
 History, Ripon College, 1902-3. Ripon College, 1903.
- JESSE FOX TAINTOR, A. B.....616 Ransom St.
 Professor of English Literature.
 A. B., Ripon College, 1873. Andover Theological Seminary,
 1875-78. Pastors in Iowa, 1878-83; Rochester, Minn.,
 1886-1903. Graduate Student Chicago University, 1903, 1905.
 In Europe for study and travel, 1911-12. Ripon College, 1905.
- WILLIAM HARLEY BARBER, B. S., A. M.....120 Thorn St.
 Professor of Physics.
 B. S., University of Wisconsin, 1901; A. M., University of Wis-
 consin, 1909. Assistant Principal Ripon High School, 1901-4;
 Principal Ripon High School, 1904-5. United States Depart-
 ment of Commerce and Labor, Bureau of Standards, Washing-
 ton, D. C., 1905-6. Graduate Student, University of Chicago,
 summers, 1911-12. Ripon College, 1906.

* On leave of absence.

ALBERT FRANKLIN GILMAN, A. M.....530 Lincoln St.
Professor of Chemistry.

S. B., Amherst College, 1897; A. M., Amherst College, 1901.
Teacher of Science, Farmington, Me., 1897-98. Professor of
Science, Dow Academy, Franconia, N. H., 1898-99. Professor
of Chemistry and Physics, Maryville College (Tenn.), 1900-6.
Graduate Student, Harvard University, 1903; University of
Chicago, 1905-6; University of Denver, 1912. Ripon College,
1906.

WILLIAM JAMES MUTCH, Ph.D.....719 Watson St.
Professor of Philosophy and Education.

A. B., University of Wisconsin, 1882; B. D., Yale Divinity
School, 1885. Ph. D., Yale University, 1894. Lecturer in Ped-
agogy, Yale Divinity School, 1900-2. Pastor of Howard
Avenue Congregational Church, New Haven, Conn., 1885-
1907. Ripon College, 1907.

GEORGE ADDISON TALBERT, M.S.....122 Watertown St.
Professor of Biology.

B. S., Ohio Wesleyan University, 1888; M. S., Ohio Wesleyan
University, 1891. Graduate Student, Johns Hopkins Univer-
sity, 1888-89. Berlin University, 1898-99. University of Chi-
cago, 1899-1900. Woods Hole Marine Laboratory, summers of
1893-94-95, and Leland Stanford Marine Laboratory, summer
of 1897. Teacher of Biology, 1889-1902. Stevens Point Nor-
mal School, 1902-9. Ripon College, 1908.

ELIZABETH BATTLE BINTLIFF, A. M.....234 Elm St.
Professor of Music and Director of the School of Music.

Student, Oberlin Conservatory of Music. Organ Pupil, Fene-
lon B. Rice and Clarence Eddy. Piano Pupil, George W. Steel
and William H. Sherwood. Theory Pupil, George W. Chad-
wick and Frederic Grant Gleason. Studios in Janesville, Wis.,
and Chicago, Ill. Organist, St. Paul's Episcopal Church, Mil-
waukee, and Leavitt Street Congregational Church, Chicago,
Ill. Professor of Music and Director of Conservatory of
Music, Olivet College, 1893-1909. A. M., Olivet College, 1902.
Ripon College, 1909.

EMMA GERTRUDE SIMMONS, A. M.....Bartlett Cottage
Associate Professor of French and German.

A. B., University of Missouri, 1905. A. M., University of
Wisconsin, 1908. Teaching Fellow, University of Wisconsin,
1906-1908. Student at the University of Paris, 1908-1909.
Ripon College, 1909.

ROBERT GRIFFIN SHERWOOD, A. M.....511 Woodside Ave.
Associate Professor of Mathematics.

A. B., Ripon College, 1908. A. M., University of Wisconsin,
1910. University of Chicago, 1912. Ripon College, 1910.

- EGBERT RAY NICHOLS, A. M.....621 Ransom St.
 Professor of English Composition and Public Speaking.
 Ph. B., Franklin College, 1907; A. M., Harvard University,
 1909. Professor of English, Ottawa University, Kansas, 1909-
 11. Ripon College, 1911.
- WILBERT LEO SMITH, A. B.....221 Tygert St.
 Director of Athletics.
 A. B., Ripon College, 1910. Ripon College, 1911.
- EDNA VAN HARLINGEN.....234 Elm St.
 Instructor in Classics.
 Ph. B., National Normal University, Lebanon, Ohio, 1906.
 Latin and German, Bloomfield Normal School, Bloomfield,
 Iowa, 1907. Latin and German, Miamisburg High School,
 Miamisburg, Ohio, 1908. Vassar College, 1908-11. A. B.,
 Vassar, 1911. Ripon College, 1912.
- WILLIAM EVERETT JILLSON, A. M.....652 South Grove St.
 Librarian and Associate Professor of German.
 A. B., Brown University, 1882; A. M., Brown University,
 1885. Instructor in the English and Classical School, Providence,
 R. I., 1882-88. Student in France and Germany, 1888-
 90. Professor of German and French and Librarian, Doane
 College, 1890-1912. Student in the Library School of the
 University of Wisconsin, 1911-12. Ripon College, 1912.
- WARREN BROWNELL SMITH.....406 W. Thorn St.
 Ph. B., University of Chicago, 1902. Graduate Student, University
 of Chicago, 1909-12. Fellow in History, University of
 Chicago, 1910-12. Ripon College, 1912.
- ESTELLA HALL READE.....430 Congress St.
 Instructor in Vocal Music.
 Pupil of William H. Stockbridge, Portland, Me.; of Madame
 Perkins, Baltimore, Md.; of Dr. Edward S. Kimball, Washington,
 D. C.; of Benjamin F. Wood, Boston; of Mary Kimball,
 Washington, D. C.; and of Herman Kotschmar, Portland, Me.
 Contralto Soloist in Choirs in Lewiston, Portland, Baltimore,
 Washington, Joliet, Ill., and Olivet, Mich. Head of Vocal
 Department and Public School Music Methods, Conservatory
 of Music, Olivet College, 1897-1909. Ripon School of Music,
 1909.
- CORA LAVERNE HOPPOUGH.....234 Elm St.
 Teacher of Piano, Theory, Musical History and Appreciation.
 Graduate, Conservatory of Music, Olivet College, 1900.
 Teacher of Piano, Greenville, Mich., 1901-2. Student of Piano
 with Emil Liebling, Chicago, 1902-3. Teacher of Piano and
 Theory, Conservatory of Music, Olivet College, 1903-1909.
 Student of Piano and Advanced Theory, Teacher of Ear-
 training, Conservatory of Music, Oberlin, 1909-10. Ripon
 School of Music, 1910.

- LOUISE STANTON THOMAS.....120 E. Thorn St.
 Teacher of Violin and Mandolin.
 Student of Violin, with Mrs. B. F. Anderson; of Violin and Theory, with Theodore Meier, 1907-9; of Violin, with W. L. Jaffé, Milwaukee, 1909-10. Graduate Wisconsin Conservatory of Music, Milwaukee, from Violin course, 1911. Graduate Student of W. L. Jaffé, 1911-12. School of Music, Ripon, 1910.
- FLORENE MAE WEIMER.....205 State St.
 Teacher of Pipe Organ and Piano.
 Graduate Ripon College School of Music from courses in Pipe Organ and Piano. School of Music, 1911.

COMMITTEES OF THE FACULTY.

- CHAPEL—President Evans and Professor Mutch.
- DORMITORIES—Professors Mutch, Barber, Simmons, and Marston.
- PUBLICATION—Professors Erickson, Taintor, and Gilman.
- SOCIAL LIFE—Professors Smith, Talbert, and Simmons, and Mrs. Reade.
- ALUMNI AND COMMENCEMENT—Professors Taintor, Sherwood, and Bintliff.
- AID AND RECOMMENDATIONS—Professors Gilman and Mutch.
- FORENSICS—Professors Nichols, Jillson, and Marston.
- LIBRARY—Professors Jillson, Talbert, and Marston.
- REGISTRATION—Professors Barber, Mutch, and Taintor.
- JOINT COMMITTEE ON ATHLETICS—For the Faculty: Dean Erickson, Wilbert L. Smith, Director of Athletics; for the Trustees: J. W. Wright; for the Students: Ray Sorenson and C. R. Finnegan.
- JOINT COMMITTEE ON COMMONS—For the Faculty: Professors Barber and Smith; for the Trustees: S. M. Pedrick; for the Students: Fred Herrmann.

DEPARTMENT FELLOWS.

- IN BIOLOGY—Louis Kornder.
- IN CHEMISTRY—Louis Graf.
- IN ENGLISH—Alma Nohr.
- IN HISTORY—Matie Gowell.
- IN PHILOSOPHY—William H. Davies.
- IN PHYSICS—William H. Taylor.

OFFICERS OF ADMINISTRATION.

SILAS EVANS.....	President
FRANK MORTON ERICKSON.....	Dean
MARY CORINTHIA HARWOOD.....	Dean of Women
WILLIAM HARLEY BARBER.....	Registrar
EMMA GERTRUDE SIMMONS.....	Head of Bartlett Cottage
WILLIAM EVERETT JILLSON.....	Librarian
ROBERT GRIFFIN SHERWOOD.....	Secretary of the Faculty
PEARL DAVISON.....	Cashier
DAPHNE HURLBUTT.....	Stenographer

HERMAN GATZKE.....Superintendent of Grounds and Buildings

Ripon College

The institution out of which the present Ripon College grew, was incorporated January 29, 1851. Brockway College, as the first foundation was called in honor of one of its benefactors, was a development from the "Lyceum of Ripon," which was founded November 23, 1850. The original incorporators of Brockway College were David P. Mapes, Ezra L. Northrup, Alvin E. Vovay, Warren Chase, John S. Horner, Jehdeiah Bowen, Almon Osborn, Asa Kinney, Edwin Lockwood, Alexander B. Beardsley, William S. Brockway, Edward L. Runals, and William Starr.

From the time of its opening until 1855, the school was under the management of Rev. J. W. Walcott. No college classes were formed, and no college work was attempted, until the autumn of 1863. On February 21, 1857, Mr. Walcott deeded the college property to the Board of Trustees, they securing him for his claim of six thousand nine hundred and seventy-seven dollars by a mortgage on the entire realty. The deed recognized the right of the Winnebago Convention to nominate candidates to fill vacancies in the board. The campus conveyed in this exchange embraced about nine acres, which has since been considerably increased. The dormitory building, contemplated in 1855, was not ready for occupancy until the latter part of the autumn of 1858. The years from 1858 to 1862 witnessed serious struggles in the life of the young College. For a time during this period the buildings and grounds of the College were used for the purposes of the war, and many of its faculty and students saw actual service in the Union armies.

On April 23, 1863, the Rev. William E. Merriman, a graduate of Williams College, and of Union Theological Seminary, a popular preacher and an accomplished scholar, then pastor of the Presbyterian Church at Green Bay, was elected to the presidency of the College. The appointment of Mr. Merriman was an epoch in the history of the institution. The obstacles which confronted him were extraordinary, but he exhibited at once a power to overcome them, no less extraordinary. His Christian consecration and his enthusiasm were complete, not permitting him to miss any opportunity to do effective work for the College, or for intellectual and spiritual uplift among students and people. Although the institution had at this time no endowment, only one professor besides the President, and

hardly half a dozen students of college grade, yet it took its place of moral and intellectual leadership. Under the direction of the new President, the College grew rapidly and substantially, the number of students more than doubled, new buildings were added, and the College admitted to membership in the Society for the Promotion of Collegiate and Theological Education in the West. This last accomplishment was of far-reaching consequence, freeing the institution from obligations to the Winnebago Convention, and placing it on a much firmer financial basis. In addition to this, a large sum was added to the endowment; but, above all, the College, through this action, became recognized in the fraternity of colleges. In 1874, Dr. Merriman was given a leave of absence on account of ill health, and his active work as head of the College practically ended with this year. In this administration, remarkable in every sense, much was accomplished for the College in a material way; but more important than this, was the fact that under the guidance of this strong and simple man, the spirit of the institution was established.

The administration of Edward Huntington Merrell began in 1876, and continued until 1891. Doctor Merrell's connection with the College continued until his death, in 1909. From 1891 until 1906 he was the Professor of Philosophy. In 1906 he was made Professor Emeritus, on the Carnegie Foundation. Rufus Cushman Flagg, D. D., was President from 1892 to 1900. His successor in 1901 was Richard Cecil Hughes, D. D., who served the College until 1909. In September, 1910, Silas Evans, a graduate of the College in the class of 1898, was elected President.

From the beginning, the College has been under the control of a Board of Trustees, who have uniformly conducted its affairs wisely, economically and with foresight. From 1855 to 1864 the Board was served by four different secretaries: Mr. J. W. Walcott, Mr. Hiram Freeman, Mr. C. C. Bayley, and Mr. J. C. Catlin. In 1864 Storrs Hall, M. D., was made Secretary, and served faithfully and efficiently until 1899. At that date Mr. Samuel M. Pedrick was elected to the office, which he still holds.

The Board has been equally fortunate in its Treasurers. Mr. Jehdeiah Bowen was twice Treasurer, between the years 1851 and 1861, and again from 1865 to 1882. The Treasurer from 1861 to 1865 was Mr. Charles F. Hammond. Mr. A. P. Harwood was elected in 1882, and served until 1883. Mr. J. A. Chamberlain served from 1883 to 1884. Mr. Harwood was again elected in 1884, and served until 1886. From 1876 to 1886 Mr.

George C. Duffie, as Assistant Treasurer, had the care of the books, and the responsibilities of Treasurer fell largely upon him. In 1886 Mr. Joseph Scribner was made Treasurer, and held the office until 1899, when Mr. S. M. Pedrick was elected. Mr. Pedrick was followed in 1905 by Mr. George L. Field, President of the First National Bank of Ripon. From 1905 to 1907 Mr. Frederick Spratt, as Assistant Treasurer, gave constant attention to the accounts and to the financial affairs of the College. Mr. Albert G. Farr, Vice-President of The Harris Trust and Savings Bank, Chicago, was elected Treasurer in 1907, and continued in that office until June, 1910, when he was succeeded by Mr. William R. Dawes, of Chicago, Cashier of The Central Trust Company of Illinois. Since June, 1912, the Treasurer has been Mr. John W. Wright, President of the Ripon Knitting Works.

Requirements for Admission

GENERAL REQUIREMENTS.

Entrance requirements are expressed in terms of units. A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work. This definition assumes that the length of the school year is from thirty-six to forty weeks, that a period is from forty to sixty minutes in length, and that the study is pursued for four or five periods per week. It further assumes that two hours of manual training or laboratory work is equivalent to one hour of classroom work. Fifteen such units are required for entrance.

Of the total fifteen units, not less than eleven units should consist of English, foreign language, mathematics, social science (including history), natural science, or other work conducted by recitations and home study.

The other four units may be additional academic work or work in mechanical arts, household science, or commercial work.

The following eight units are required of all:

English, 2 units; Mathematics, 2 units; Latin, German or French, 2 units; History, 1 unit; Science, 1 unit.

It is recommended that the high school course be planned so as to include two majors of three units each and one minor of two units. One of the majors should be English.

The provisions of this recommendation may be summarized as follows:

Nine specified units.

3 units of English.

2 units of one foreign language.

The College does not require Latin for entrance, but it does strongly recommend that when possible it be included as one of the entrance subjects.

2 units of mathematics.

1 unit of social science, including history.

1 unit of natural science.

Two additional academic units. One or both of these units must be advanced work to meet the requirement of a second major of three units.

Four units left as a margin for whatever work best meets the needs of the individual.

Admission Without Foreign Language.—Students who offer fifteen units for entrance may be admitted without foreign language, but the language requirements must be met during the freshman year. This will ordinarily require extra work to the extent of four hours a week for one year, which will not be credited as part of the number of unit hours required for graduation.

Admission by Certificate.—On the recommendation of the principal of the high school, with his certificate showing that the student has successfully completed the courses required for entrance, graduates of any Wisconsin high school, on the accredited list, will be admitted to the freshman class without examination.

DETAILS OF SUBJECTS.

English. 2, 3 or 4 units. All candidates for admission to the College must present two units in English, one of which should consist of composition, and one of the reading and study of English classics. The two units required in English correspond in amount and character to the work of the first two years of the standard high school course. It is recommended that at least three units be presented in English, the third unit to consist of additional work in composition, and either (1) of the reading and study of representative selections from English and American Literature or (2) detailed study of a few typical examples of the novel, the drama, the lyric, and the essay.

Preparation in English should have two main objects: (1) command of correct and clear English, spoken and written; (2) power to read with intelligence and appreciation. To secure the first end, training in grammar and in the simpler principles of rhetoric, and the writing of frequent compositions, are essential. The candidate must be able to spell, capitalize and punctuate with accuracy. He must show a practical knowledge of the essentials of English grammar, of the construction of the sentence, and of the simpler principles of paragraph division and structure. To secure the second end, the candidate is required to read the works prescribed by the Commission of New England Colleges and Secondary Schools. The student should read the books with a view to understanding and enjoying them, and should secure a reasonable degree of familiarity with their substance.

Greek. 2 units. Xenophon's *Anabasis*, four books; Homer's *Iliad*, three books, or an equivalent amount of the *Odyssey*; Greek composition.

Latin. 2, 3 or 4 units. If two units, they must be as follows: Caesar, four books, or Caesar, two books, and an equivalent to two books in selections from Caesar or Nepos. If two units additional are presented, they must include: Elementary Latin, with the addition of six orations of Cicero (selections from the letters may be substituted for two orations); Virgil, six books; Composition, preferably in connection with Caesar and Cicero.

German. 2, 3 or 4 units. German may be offered for entrance to the amount of two, three or four units, requiring respectively two, three or four years of high school study. A candidate who presents elementary German (2 units) should be able to pronounce and to translate at sight, into idiomatic English, simple German prose, to put easy English sentences into German, and to carry on a simple conversation in German, based upon the texts set for translation. If three or four units of German are offered, a proportionate amount must be presented.

French. 2, 3 or 4 units. French may be offered for entrance to the amount of two, three or four units, requiring respectively two, three or four years of high school study. A candidate who presents elementary French (2 units) should have a thorough knowledge of the grammatical forms of the language, and possess a sufficient vocabulary to read simple French with ease. If three or four units of French are offered, a proportionate amount must have been completed.

History. 1, 2, 3 or 4 units may be presented from the following subjects:

Ancient History to the year 800 A. D., 1 unit.

Mediaeval History, 1 unit.

English History, 1 unit.

United States History, 1 unit.

In Civics, Commercial Law, Economics, and Commercial Geography, a half unit may be offered for each subject, provided it represents a substantial course.

Mathematics. The work in Mathematics includes: Elementary Algebra, one unit; Geometry, plane and solid, one unit. Additional credit to the amount of one-half unit will

be given for Advanced Algebra. This is required of students who wish to take the course in pre-engineering as outlined on page 30.

The unit of Elementary Algebra should include the following subjects: Fundamental operations, equations of the first degree with one unknown number, simultaneous equations of the first degree, factors, highest common factor, lowest common multiple, quadratic equations, simultaneous equations above the first degree, elementary theory of indices, and radicals.

In Geometry the requirements should indicate a combined course of one year in plane and solid geometry, and should consist of a sufficient number of propositions in solid Geometry.

If an additional half year of algebra is presented for admission, the work should cover simultaneous quadratic equations; ratio, proportion and variation, including graphical representation of simple relations between two variables; binominal theorem for positive integral exponents; logarithms, including use of tables in simple numerical work.

Physics. 1 unit. A year's course, including continuous and systematic laboratory practice. Any standard text-book may be used.

Chemistry. 1 unit. A year's course of descriptive chemistry, including both class-room and laboratory work. The student should keep a careful record of the experiments performed.

Botany. 1 unit. The course should cover a study of the life histories of types from the main groups of plants, and should include also a series of simple experiments.

One unit will be accepted in Physical Geography and in Zoology, provided it represents thorough systematic work of high school grade. A half unit also may be offered in Physiology.

ADMISSION BY CERTIFICATE.

On the recommendation of the principal of the high school, with his certificate showing that the student has successfully completed the courses required for entrance, graduates of any Wisconsin high school, on the accredited list, will be admitted to the freshman class without examination.

The list of accredited schools from which students will be admitted to the College on the certificate of the principal of the school, is the same as that of the University of Wisconsin.

The regulations concerning the accredited schools also are the same as those in force at the University. Further information concerning these schools will be furnished on application.

The certificates as to the work done in the high school should be made out on blanks which will be furnished on application, by the Dean of the College. They should be forwarded to the Dean, before the opening of the college year. Students will not be registered until the certificate is presented.

Certificates issued by the state normal schools, or by recognized academies of the state, will be accepted for the entrance requirements in the subjects covered by such certificates.

Students from the state normal schools who were graduated previously from an accredited, four-year high school course admitting to the college, will be given credit for their work toward the degree of Bachelor of Arts.

RIPON COLLEGE AND THE STATE UNIVERSITY.

Ripon College and the University of Wisconsin have practically the same entrance requirements and the same list of accredited schools. Students who migrate from either institution to the other will be given the rank of sophomores or juniors, if they change at the end of the first or second year of their work. It is not deemed advisable by either institution, for students to migrate at the end of the junior year; but where such cases occur, they will be dealt with on their individual merits.

The following statements from the catalogue of the University will indicate the arrangement between the University and the Wisconsin Colleges: "By arrangement with Beloit College, Lawrence College, Ripon College, Carroll College, and Marquette University, students of these institutions who have satisfactorily completed the work of the sophomore year will be admitted to junior rank in the College of Letters and Science. In case of migration at an earlier period than the end of the sophomore year, proportional credit will be given. Students who complete two years of work at Beloit, Lawrence and Ripon, will be admitted to the College of Engineering of the University of Wisconsin, on the same conditions as students who transfer to that college from the College of Letters and Science of the University of Wisconsin."

Requirements for Graduation

The requirement for graduation is one hundred and twenty (120) semester hours of credit in college courses and a satisfactory thesis on an approved topic connected with the major subject, or one hundred and twenty-four (124) semester hours of credit without thesis. The unit of measure, a semester hour, is one hour recitation or lecture, or one two-hour laboratory period per week for one semester. A course which meets four hours per week for one semester gives four (4) hours' credit. Regular work is fifteen hours per week.

SELECTION OF STUDIES.

In the selection and arrangement of studies, the student has considerable freedom, but his choice is in part limited by the following general requirements.

Freshman Year.

The regular work of the freshman year is four subjects, each continued through the year. English is required of all, and at least one subject must be chosen from each of the following groups. The fourth subject may be taken from either group.

I.
Latin
Greek
French
German

II.
Mathematics
Chemistry
Biology
History

Sophomore Year.

In the sophomore year any of the subjects open to freshmen may be elected, and any of the required subjects not already completed should be included in the selection. Other electives open to sophomores are the following:

Latin
Greek
French
German
English Composition
English Literature
Archaeology

Philosophy
History
Economics
Mathematics
Chemistry
Biology
Physics

Junior and Senior Years.

By the time the student has reached the junior year, he is ready to select a subject in which to do advanced, cumulative work. This subject is called the student's major subject, and must include at least twenty hours' work in one of the following departments: Philosophy, Education, Greek, Latin, French, German, English, History, Economics, Mathematics, Biology, Chemistry or Physics.

To secure breadth of training, the courses of study offered by the departments of the College have been arranged in four groups. The major subject will lie in one of these groups. In each of the other three, the student must select a minor or year course of at least eight hours' credit in one department. These minors are in addition to the courses required of all students.

The four groups from which the student selects his major and three minor subjects are as follows:

I.	II.	III.	IV.
Greek	Biology	History	Philosophy
Latin	Chemistry	Economics	Mathematics
German	Physics	Political Science	
French		Education	
English			
Music			
Archaeology			

The range of elective studies is made broad, to meet the needs of all students. To prevent an unwise or a too scattered selection, several four-year courses are given in the following pages. Some of these courses prepare for special work, as Engineering, Law, and Agriculture. In making his selection the student is recommended to consult these courses, and also to seek the best advice available. It is important that the courses should be planned as a whole with a definite end in view; and when once planned the student should not allow himself to be diverted from it for any but the most serious reasons.

The requirements for graduation may be summed up as follows:

English I.

Two courses of one year each in foreign language (or three courses if less than four units of foreign language were offered for entrance).

A year course in each of four groups of studies and an additional amount of work in one of these four subjects to constitute the major subject.

Free election to make the total of one hundred and twenty hours required for graduation, or one hundred and twenty-four hours without thesis.

The degree of Bachelor of Arts is conferred upon all who complete the course.

HONOR CREDITS.

In addition to the 120-hour credits necessary for graduation, each student must earn at least 124 honor credits, or an average mark in all subjects of C or higher.

Class standings are indicated by letters. A, B, C and D are passing grades. For a grade of A in a given course, the student will receive three times as many honor credits as there are hour credits in the course; for a grade of B, twice as many honor credits; and for a grade of C, as many honor credits as hour credits. For example: A four-hour course in which the student's mark is A, Gives twelve honor credits; if the grade is B, eight honor credits; and if C, four honor credits.

GENERAL REGULATION GOVERNING REGISTRATION.

Monday and Tuesday, September 8 and 9, are registration days. The registration office is open from nine till twelve and from one-thirty till five, and all students are expected to register at that time. For registration after this date, or for change of registration, a fee of one dollar is charged. After three weeks of a semester have passed, no change in registration can be made without the consent of the Registration Committee, and a study which is dropped without the consent of this Committee is recorded as a failure.

No credit is given for any work not regularly registered in advance. Application for advance credit for work taken before entering the College must be made within one year of the time of entrance.

All entrance conditions must be included in the work of the first year.

Regular work in the Freshman year is 15 semester hours per week or 4 courses, which in some courses may amount to 16 hours. For all other students, the regular work is 15 to 18

hours. More work than this may be taken only on consent of the Registration Committee, and this consent is not given unless the student has maintained an average of C in the last semester, and is not falling below D in any subject.

New students will go first to the Dean of the College, who will assign them to faculty advisers. The registration form is made out after consultation with the adviser, and must bear his signature when it is filed with the Registrar. The registration form for succeeding years must be approved by this same faculty adviser, until the student selects his major subject. The professor in charge of this department then becomes his adviser.

THE GROUP SYSTEM.

The group system readily adapts itself to the individual, by permitting a wide latitude in the choice of studies. At the same time, the importance of making a careful choice, under the best advice, cannot be emphasized too strongly. As some courses are given only on alternate years, and because of possible conflicts in the hours of recitation, the general plan of the student's work for the remainder of the course should be made by the beginning of the sophomore year.

The following courses illustrate the working of the group system, and will guide the student in arranging his own work.

PHILOSOPHY.

This is a conservative course for the purpose of classical culture, drawn upon lines approved by the longest experience of American colleges. By a judicious use of the elective privilege, a fair balance can be preserved between the humanistic and the scientific disciplines for the purposes of culture and professional life.

The course serves also as a pre-theological course, when electives are chosen with this in view. It is possible for graduates of good rank to secure one year of advanced credit in leading theological seminaries, upon recommendation of the faculty. This course presupposes at least four language units of entrance credit. It must include at least one year of a laboratory science, and two are recommended.

First Year.

English 1, four hours; Greek A, four hours; Latin 1-2, four hours. One elective.

Second Year.

First semester. Philosophy 1, Method of Nature, four hours; German 1, four hours; English Composition 2, three hours. One elective. Second semester. Greek 8, Ancient Philosophy, three hours; German 2, four hours; English Composition 2, three hours. Elective.

Third Year.

First semester. Philosophy 2, Philosophy of Culture, four hours; Philosophy 13, Logic, two hours; History, four hours. Electives. Second semester. Philosophy 4, Reality and Knowledge, four hours; Education 10, Psychology, four hours; History, four hours. Electives.

Fourth Year.

First semester. Education 1, Philosophy of Education, four hours. Electives. Second semester. Philosophy 3, Types of Modern Thought, four hours. Electives.

In choosing electives, preference should be given to the following subjects in about the order named:

Science, one required; English, advanced courses; Language, second year in each; Bible; Economics; Education.

LANGUAGE-LITERATURE.

Many combinations of language and literature courses are possible, varying with the special interest of the student, whether it is in the Ancient Classics, French, German or English. One such group, typical of them all, is given below. The course outlined, covers with some completeness the literature, history, and civilization of Europe.

First Year.

English 1a and 1b, four hours; Greek or Latin, four hours; French or German, four hours; Science, four hours.

Second Year.

First semester. English Composition or Literature, three hours; Greek or Latin, three hours; French or German, three hours; History 6, four hours; Philosophy 1, four hours. Second semester. English Composition or Literature, three hours; Greek or Latin, three hours; French or German, three hours; History 8, four hours; Archaeology 1, two hours.

Third Year.

First semester. English, three hours; Greek or Latin, or French or German, three hours; Archaeology 1; Major subject, three to five hours. Elective. Second semester. English, three hours; Greek or Latin, or French or German, three hours; Major subject, three to five hours; Psychology, four hours.

Fourth Year.

First semester. English, three hours; Greek or Latin, or French or German, three hours; Major subject, three to five hours; Education, four hours; Classical Literature 7, three hours. Second semester. English, three hours; Greek or Latin, or French or German, three hours; Major subject, three to five hours. Education, four hours. Electives.

HISTORY-ECONOMICS.**First Year.**

First semester. Ancient or Mediaeval History, four hours; English 1, four hours; Foreign Language, four hours; Mathematics 1, three hours. Second semester. Ancient or Modern History, four hours; English 1, four hours; Foreign Language, four hours; Mathematics 2, three hours.

Second Year.

First semester. Mediaeval or Ancient History, four hours; English, three hours; Foreign Language, three hours; Economics, four hours. Second semester. Modern or Ancient History, four hours; English, three hours; Foreign Language, four hours; Economics as offered, four hours.

Third Year.

First semester. English Political and Constitutional History, four hours; United States History, four hours; Physics 1, five hours; Political Science, four hours. Second semester. English Political and Constitutional History, four hours; United States History as offered, four hours; Science. Elective.

Fourth Year.

First semester. Economics as offered; Advance English Composition; History. Elective. Second semester. Economics as offered; Advance English Composition; History. Elective.

MATHEMATICS-PHYSICS.

The Mathematics-Physics course is arranged to present not only a thorough and continuous study of mathematics and physics, but also a broad and liberal outline of collegiate work. In this respect the course is well adapted to students who are desirous of becoming teachers in these subjects, or are contemplating graduate work, and also conforms to the needs of those who want the course, wholly as a matter of general training.

First Year.

First semester. Chemistry; German or French; English; Algebra. Second semester. Chemistry; German or French; English; Trigonometry.

Second Year.

First semester. Analytic Geometry; Differential Calculus; Physics; German or French; Advanced English Composition. Second semester. Analytic Geometry; Integral Calculus; Physics; German or French; English Literature.

Third Year.

First semester. Advanced Calculus; Light; Economics or History; Elective: Quantitative Chemistry or Biology. Second semester. Differential Equations; Heat; History or Economics; Elective: Chemistry or Biology.

Fourth Year.

First semester. Mechanics; Physics; Psychology; Electives; Philosophy, Education. Second semester. Mechanics; Physics; Logic and Metaphysics; Education.

TRAINING FOR PROFESSIONAL COURSES.

The following courses are arranged to give specific preparation for professional study. It should be noted, however, that each is a well-rounded course of study, and meets the college requirements for the degree of Bachelor of Arts.

PREPARATION FOR TEACHING.

The course outlined for the preparation of teachers is intended to give the broadest and most complete training for high school teaching, consistent with a college course. There

are three qualifications about equally essential for a successful teacher, namely; general culture and intelligence, mastery of the subject, and skill in the theory and art of teaching. The course provides for all three of these requirements. Its chief merit lies in the scope and thoroughness of the courses in Education.

No one is recommended as a teacher who has not completed a college course, and earned a bachelor's degree. This course must contain Psychology, and at least one full year of the regular work in Education. It is strongly recommended that all the courses be taken.

The department of Education offers four standard four-hour courses, covering two years, and dealing in a thorough manner with the History and Philosophy of Education, with educative values and the fundamental principles governing method, with the special problems of teaching, management, and constructive ideals of life. Instruction is given in training young people to study and manage their own mental operations, to use libraries and reference books, and to get the right attitude toward life.

The several departments in Ripon College offer Courses for Teachers of those subjects, in which reviews of the elementary matter are given, with special reference to teaching it in high schools.

Systematic and critical observation of high schools in actual operation is a regular part of each year's work. There is also considerable opportunity for getting valuable experience in the actual work of a teacher, through the appointment of fellows and substitute teachers.

To worthy students who have taken these training courses, assistance is given, during the senior year, that they may secure good positions. The efforts of the faculty in this direction have been very successful. School men, understanding the character of the work done and the method of recommendation, are constantly writing for candidates. While no guarantee can be made, it is safe to say that every student who proves worthy, and desires a position, will secure one.

PREPARATION FOR THEOLOGY.

The College offers all the courses usually taken in preparation for the study of theology. The course outlined under the head of Philosophy, with suitable electives chosen under the direction of the head of that department, meets the approval of most theological seminaries.

PREPARATION FOR LAW.

Students entering the profession of Law, are urged to complete a full four-year course in college. The following course meets the requirements for a bachelor's degree, and at the same time outlines what is believed to be best adapted to meet the needs of law students.

First Year.

First semester. Algebra, three hours; English, four hours; Latin, German, four hours; Mediaeval History, four hours. Second semester. Trigonometry, three hours; English, four hours; Latin, German, four hours; Modern History, four hours.

Second Year.

First semester. English Composition, three hours; Latin, German, three hours; English Political and Constitutional History, four hours; Economics 1, four hours; General Chemistry, four hours. Second semester. Exposition, three hours; Latin, German, three hours; English Political and Constitutional History, four hours; Economics as offered, four hours; Science, four hours.

Third Year.

First semester. Physics, five hours; Latin, German, three hours; U. S. History 1, four hours; Economics as offered, six hours. Second semester. Literary History of America, three hours; Latin, German, three hours; U. S. History as offered, four hours; Economics as offered, six hours.

Fourth Year.

First semester. Debating, three hours; U. S. History as offered, four hours; Political Science, four hours; Economic Seminar, two hours; Advanced Composition, three hours. Second semester. International Law, four hours; U. S. History as offered, four hours; Economics as offered, six hours; Advanced Composition, three hours.

PREPARATION FOR BUSINESS OR PUBLIC SERVICE.

Students desiring to prepare for a business career, or wishing to enter certain branches of the public service, will find that the requirements for a bachelor's degree permit them to devote to separate study in the departments of History and

Economics, nearly the whole of the third and fourth years, and also some time in the first and second years.

The following courses are suggested for such students:

First Year.

First semester. Algebra, three hours; English 1, four hours; German or French, four hours; English Political and Constitutional History, four hours. Second semester. Trigonometry, three hours; English 1, four hours; German or French, four hours; English Political and Constitutional History, four hours.

Second Year.

First semester. German or French, three hours; Science, four hours; English Composition, three hours; Economics 1, four hours; Nineteenth Century History, four hours. Second semester. German or French, three hours; Comparative Anatomy of Vertebrates, four hours; Economics as offered, four hours; U. S. History as offered, four hours; Elective, three hours.

Third Year.

First semester. Physics, five hours; French, four hours; U. S. History as offered, four hours; Economics as offered, six hours. Second semester. International Law, four hours; French, four hours; U. S. History as offered, four hours; Economics as offered, six hours.

Fourth Year.

First semester. U. S. History as offered, four hours; Economic Seminar, two hours; Political Science 1, four hours; Elective, four hours. Second semester. U. S. History as offered, four hours; Economics as offered, six hours; Elective, four hours.

PREPARATION FOR MEDICINE.

This course is designed to give a broad education in the principal natural sciences preparatory to the study of medicine. Four years of work are offered in both Biology and Chemistry. One of the two subjects is usually begun in the freshman year, and the other in the sophomore.

First Year.

First semester. General Chemistry or Biology, four hours; English, four hours; Mathematics, three hours; German or Latin, four hours. Second semester. Qualitative Analysis or Biology, four hours; English, four hours; Mathematics, three hours; German or Latin, four hours.

Second Year.

First semester. Biology of Invertebrates, four years; Quantitative Analysis, four hours; German or Latin, three hours; Electives: History or English. Second semester. Biology of Vertebrates, four hours; Volumetric Analysis, four hours; German or Latin, three hours; Electives: History or English.

Third Year.

First semester. Organic Chemistry, five hours; Histology, four hours; Physics, five hours; Electives: Philosophy, Latin or Greek, French. Second semester. Organic Chemistry; Embryology; Physics, five hours; Electives: Philosophy, Latin or Greek, French.

Fourth Year.

First semester. Physiological Chemistry; Physiology, four hours; Psychology, three hours; Electives: Latin or Greek, French, History. Second semester. Bacteriology, five hours; Botany, three hours; Electives: Latin or Greek, French, Economics, Industrial Chemistry.

PREPARATION FOR ENGINEERING.

The Pre-Engineering Group is intended to meet the needs of those students who wish to secure a thoroughgoing foundation for advanced study in engineering. It is hoped, therefore, that after graduation most of those who pursue this group of studies will desire to carry on their work at the University of Wisconsin or elsewhere. The agreement below has consequently been entered into by the University and Ripon College.

1. Graduates of Ripon College, who have followed the course outlined as the Pre-Engineering Group of studies, will be graduated from the various engineering courses leading to the degree of Bachelor of Science in two additional years; provided that students in civil engineering can make arrange-

ments to complete the sophomore surveying before entering the University. (This may be done in the University Summer School.)

2. Graduates who have pursued the studies of this group, will be graduated from the advanced engineering course leading to the professional degree in two years and two summer sessions at the University, with the provision concerning students in civil engineering above noted.

Note. The course as outlined, gives eighteen hours' work per week for freshmen, while the regular work is but fifteen hours. This course may be made to conform to the general plan, by deferring the course in Mechanical Drawing until the sophomore year. The student who undertakes eighteen hours' work, will be required to comply fully with the honor credit rule, or reduce the amount of work.

First Year.

First semester. English, four hours; German or French, four hours; Chemistry, four hours; Algebra, three hours; Mechanical Drawing, three hours. Second semester. English, four hours; German or French, four hours; Chemistry, four hours; Trigonometry, three hours; Mechanical Drawing, three hours.

Second Year.

First semester. Analytical Geometry, two hours; Differential Calculus, three hours; General Physics, five hours; ¹Quantitative Analysis, four hours; Descriptive Geometry, three hours; Electives: French or German, three hours; Composition, three hours; English Literature, three hours. Second semester. Analytical Geometry, two hours; Integral Calculus, three hours; General Physics, five hours; Descriptive Geometry, three hours; ¹Analytical Chemistry, four hours; Electives: German or French, three hours; English Composition, three hours.

Third Year.

First semester. Advanced Calculus, three hours; ²Surveying; ⁴Organic Chemistry, five hours; Electives: Biology, four hours; Economics, four hours. Second semester. ³Differential Equations, three hours; ³Heat, four hours; ⁴Physical Chemistry, three hours; Electives: ⁴Botany, three hours; Economics, four hours.

Fourth Year.

First semester. Theoretical Mechanics, three hours; ⁵Geology, three hours; ⁴Bacteriology, five hours; ³Electricity, five hours; Electives: History, four hours; Advanced Chemistry, four hours; Philosophy, four hours. Second semester. Theoretical Mechanics, three hours; ⁵Mineralogy, four hours; ³Electrical Measurements, two hours; Electives: History, four hours; Philosophy, four hours.

1 Required of Chemical, Sanitary, Electrical, Mining and Electrochemical Engineers.

2 Required of Civil and Sanitary Engineers.

3 Required of Civil, Mechanical and Electrical Engineers.

4 Required of Chemical and Sanitary Engineers.

5 Required of Mining and Sanitary Engineers.

First Semester, 1913-14.

Eight O'Clock	Biology 1		T	Th				
	Education 5		T	W	Th	F		
	Composition 4	M		W				
	English 10		T	W	Th	F		
	French 5	M		W		F		
	Latin 3	M		W		F		
	Mathematics 1	M		W		F		
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							Laboratory Hours 8 to 10 A. M.	
	Biology 1		M				F	
	Chemistry 1a		M				F	
	Chemistry 1b			T		Th		
	Physics 1		M		W		F	
Nine O'Clock	Biology 7		T	W	Th			
	Chemistry 1			W				
	Public Speak'g 7	M		W				
	French 3	M		W		F		
	Greek A	M	T	W		F		
	Greek 3		T	W		F		
	History 7a	M	T		Th	F		
	Mathematics 1	M		W		F		
	Philosophy 2		T	W	Th	F		
	Physics 1		T		Th			
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Ten O'Clock	Biology 6				Th			
	Chemistry 1				Th			
	Chemistry 6	M		W		F		
	Composition 2		T		Th			
	English 3a		T	W	Th			
	French 1	M	T	W		F		
	Latin A		M	T	W		F	
	Latin 5		M	T		Th		
	Mathematics 8			T		Th		
	Mathematics 9		M		W		F	
	Philosophy 10			T	W		F	
	Sociology 1		M	T	W	Th		
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Eleven O'Clock	Biology 4		T					
	Chemistry 1					F		
	Chemistry 3				Th			
	Economics 2	M	T	W	Th			
	English 4	M	T	W	Th			
	German 1	M	T	W	Th			
	German 5		M		W		F	
	History 6		M	T	W	Th		
	Latin 1		M	T	W	Th		
	Mathematics 19		M		W		F	
	Physics 5		M		W		F	
	Physics 3			T		Th		

One O'Clock	English 1a	M	Th
	English 1a	T	F
	English 1b	M	Th
	English 1b	T	F
	German 7	T	Th
	Greek 9	T	Th
	History 30	M T	Th F

Laboratory hours for advanced courses in Biology, Chemistry, Physics, M., T., Th., F., 1 to 3; Saturday, 8 to 12.

Two O'Clock	Archaeology 1	T	Th
	Economics 1	M T	Th
	French 7	M T	Th
	German 1	M T	Th F
	Greek 1	M T	Th F
	Mathematics 3	M T	Th
	Mathematics 7	M T	

Three O'Clock	Chemistry 5	T	Th F	Mathematics 7	T	
	German A	M T	Th F	Philosophy 13	M	Th
	German 3	M T	Th	Public Speak'g 10	T	F
	Greek 8	M T	Th	Sociology 3	M T	Th F
	Mathematics 3	M T	Th			

Second Semester, 1913-14.

Eight O'Clock	Biology 3	T	Th
	Education 6	T W	Th F
	Composition 4	M	W
	English 3b	T W	Th F
	French 6	M	W F
	Latin 4	M	W F
	Mathematics 2	M	W F

Laboratory Hours, 8 to 10 A. M.

Biology 3	M	F
Biology 2	W	S
Chemistry 2a	M	F
Chemistry 2b	T	Th
Physics 2	M	W F

Nine O'Clock	Composition 3	T	Th
	French 4	M	W F
	Greek 4	T	W F
	Greek A	M T W	F
	History 7b	M T	Th F
	Mathematics 2	M	W F
	Philosophy 4	T W	Th F
	Physics 2	T	Th
	Public Speak'g 8	M	W

Ten O'Clock	Biology 10	M	T	W	F	Latin 9	M	T	Th		
	Chemistry 2				Th	Mathematics 9	M	W	F		
	Chemistry 10	M		W		Mathematics 8		T	Th		
	English 9		T	W	Th	Political Sc.	M	W	F		
	French 2	M	T	W	F	Psychology		T	W	Th	F
	Latin A	M	T	W	F						

Eleven O'Clock	Biology 5	M		W		German 2	M	T	W	Th
	Biology 8		T		Th	German 6	M		W	F
	Chemistry 2				F	History 8	M	T	W	Th
	Chemistry 4		T		Th	Latin 2	M	T	W	Th
	Chemistry 12	M		W		Physics 4		T		Th
	English 7				Th	Physics 7	M		W	F
	English 2		T	W		Psychology				F
	Economics 8	M	T	W	Th	Mathematics 19	M		W	F

One O'Clock	Botany 9	M		F
	English 1a	M		Th
	English 1a		T	F
	English 1b	M		Th
	English 1b		T	F
	German 8		T	Th
	Greek 9		T	Th
	History 25	M	T	Th F

Laboratory hours for advanced courses in Biology, Chemistry, Physics, M., T., Th., F., 1 to 3; Saturday, 8 to 12.

Two O'Clock	Archaeology 3		T		Th	
	Economics 1	M	T		Th	
	Ethics		M		Th	
	French 8		M	T	Th	
	German 2		M	T	Th	F
	Greek 2		M	T	Th	F
	Latin 10		M			F
	Mathematics 3		M	T		Th
	Mathematics 7		M	T		

Three O'Clock	Bible 2	M T	Th	Mathematics 7	T	
	Biology 2	M	F	Physics 8	T	
	German 4	M T	Th	Public Speak'g 10	T	F
	German A	M T	Th F	Sociology 4	M T	Th F
	Mathematics 3	M T	Th			

Description of Courses

BIBLE AND RELIGION.

Professor Evans.

These courses are pursued with the same exacting requirements of scholarly work as any other course. The Bible is taught with reverent scholarship, and a knowledge of the Bible is considered as an essential element of culture and a practical requisite of life. The courses are given by four men who are especially interested and qualified in their own subject-matter and point of view.

1. **Theism.** In this course the student is led to an appreciation of that system of philosophy which finds its first principle in a Personal God. Open to juniors and seniors. Lectures, Class Discussions, Readings.

First semester. Three hours. (Omitted in 1913-14.)

2. **The Messages of Hebrew Prophecy.** This vital literature will be studied in its historical and sociological aspects.

Second semester. Three hours. M., T., Th., 3:15.

3. **The Life and Letters of the Apostle Paul.** The biography of this great Christian Missionary will be carefully studied from the Book of Acts, and his writings studied in their proper settings, with a view to a perspective of his underlying truths.

Second semester. Three hours. (Omitted in 1913-14.)

The two courses above will be given in alternate years.

4. **Ethics.** The study of moral development, moral principles, and application of morals to present-day problems. Open to juniors and seniors. Text-book: Dewey and Tufts.

Second semester. Two hours. M., Th., 2:15.

PHILOSOPHY.

Professor Mutch.

Philosophy for the college student ought to give unity and comprehension not only to the college studies but to the whole thought and action of life. The courses in Philosophy

in Ripon College are planned and executed with this aim in view. In this department one gets a synthesis of the work in other departments. Without this the other subjects are in danger of becoming isolated, uncoördinated, and unvitalized. While text-books are used in some of the courses, there is a constant effort to bring the student into first-hand relations with reality, and to lead him to think his own thoughts.

1. Method of Nature. A study of the laws and forces operative in the organic and inorganic world, for the purpose of establishing a few fundamental concepts of philosophy, and giving the student practice in thinking, reading and discussion of philosophical themes.

First semester. Four hours. (Omitted in 1913-14.)

2. Philosophy of Culture. After a brief résumé of Course 1, for the benefit of those who have not taken it, the same method is continued in the field of human culture, as seen in society and history. While no attempt is made to cover the whole ground of human culture, there is a study of the laws and principles of human progress, the obstacles to be overcome, and the ideals and factors of real culture.

First semester. Four hours. T., W., Th., F., 9:00.

3. Types of Modern Thought. This is a course in the history of modern philosophy, with special reference to the comparison of different types of thought from Descartes to the present time.

Second semester. Four hours. (Omitted in 1913-14.)

4. Reality and Knowledge. A course in Metaphysics. Paulsen's "Introduction to Philosophy" is used as a text-book, and the aim is to furnish each student with an opportunity and a help to work out for himself a satisfying concept of the fundamental things in the world and in his own life.

Second semester. Four hours. T., W., Th., F., 9:00.

13. Logic. A study of the forms and laws of exact reasoning, with a modern text-book on deductive and inductive Logic.

First semester. Two hours. M., Th., 3:15.

President Evans.

8. Greek Philosophy in its Relation to Christianity.
(See Greek Department.)

EDUCATION.

The courses in Education are all intended for general culture, and not merely as a preparation for the teaching profession. This subject is unsurpassed for its culture value. It fits one for the understanding and mastery of self, and so for good citizenship, and for the ordinary responsibilities of home and society.

At the same time the fact is kept in view that seventy-five per cent of our graduates go to teach in high schools. That work is chosen which experience shows to be most useful in preparing our graduates to meet the requirements of these positions in a broadly competent way. We have reason to feel gratified with the results of this method, as they appear in the successful work of our graduates.

A state teacher's certificate is granted on application to the state superintendent, without examination by the state board of examiners, to graduates of Ripon College, who have satisfactorily completed one year's work in the standard courses in Pedagogy, that is, Education 5-6, or 7-8, and the regular four-hour course in Psychology, and who have had one year of successful experience in teaching in Wisconsin after graduation. A special license is issued for the first year.

For those who expect to make teaching their profession, it is desirable to take all the courses in Education, 5 to 12, and at least one of the departmental courses for teachers.

5. History of Education. This course is based on Monroe's "Brief Course in the History of Education." There are some selected outside readings, and an additional study of the history of education in the United States. This is the best point at which to begin the subject of Education if one desires the full two years in this subject.

First semester. Four hours. T., W., Th., F., 8:00.

6. Pedagogy. Theory and general method of teaching, based on educational psychology and the best modern practice; special method, training, discipline, school management, textbook, lectures, outside reading, class-room discussions, written papers, observation.

Second semester. Four hours. T., W., Th., F., 8:00.

7. Philosophy of Education. A study of the fundamental theory of education, especially in its psychological, biological,

and sociological aspects. Outside reading, class discussion, written papers. Text-book: Bolton's "Principles of Education."

First semester. Four hours. (Omitted in 1913-14.)

8. High School Teaching. A study of the pedagogy of secondary education; the organization and curriculum of the high school; the educational values of the subjects general and special method; teaching how to study, and to use reference books and libraries. The course is conducted by lectures, outside reading, discussion, written papers, systematic observation work, and some practice in teaching.

Second semester. Four hours. (Omitted in 1913-14.)

9. Religious Education. What religion is, its factors and forms; the church school, its history, organization and curriculum; Bible teaching, its aim, gradation and method; the home, the church, and the public school as related to the subject.

First semester. Three hours. (Omitted in 1913-14.)

10. Rural Communities. This course is the practical side of the work in religious education (see Education 9). It includes a systematic study of the modern problems of country life; the social survey; the church as a social center and leader in progressive enterprise for community betterment in morals, religion, and education; a study of the ideals of civic, domestic, and agricultural life; the rural school; the rural Sunday school; forms of coöperation, and the difficulties to be overcome.

First semester. Three hours. T., W., F., 10:15.

11. Psychology. An elementary course in general Psychology, with a combination of text-book, topical discussion, and simple experiments. It should be taken by every college student, and should not be left until the senior year.

Second semester. Four hours. T., W., Th., 10:15; F., 10:15-11:15.

12. Colloquium. Reports on books, journals, and other current discussions in Education and Philosophy. Open to students of either subject.

Through the year. One hour. Time to be arranged.

Courses for Teachers.

Latin. See Latin 12, 13. Professor Erickson.

German. See German 8, 9. Professor Jillson.

English. See English 12a, 12b. Professors Taintor and Nichols.

Physics. See Physics 10. Professor Barber.

Music. Six courses. See School of Music. Professor Bintliff.

THE CLASSICS.

Professor Erickson.

Miss Van Harlingen.

LATIN.

A. Course for Beginners. Special attention is given to the presentation of the subject so that a fairly comprehensive knowledge of Latin may be acquired by those who begin the study of it in the freshman year. This course meets the entrance requirements in foreign language, or may be counted for credit toward graduation.

Through the year. Four hours. M., T., W., F., 10:15.

B. Cicero-Virgil. This course follows Course A, or may be taken by students who have had two years Latin in the high school.

Through the year. Four hours.

1. Livy. Selections from Livy (Burton). **Cicero, De Senectute.** Prose Composition.

First semester. Four hours. M., T., W., Th., 11:15.

2. Horace. Odes and Epodes.

Second semester. Four hours. M., T., W., Th., 11:15.

3. Latin Literature. Plautus, Captivi, with introductory work in early Latin; selections from the elegiac poets; assigned reading on the literature of the Republic.

First semester. Three hours. M., W., F., 8:00.

4. Latin Literature. Tacitus, Germania and Agricola. Rapid reading of some of the letters of Pliny, and some of the epigrams of Martial. Assigned reading on the literature of the early empire.

Second semester. Three hours. M., W., F., 8:00.

5. Lucretius. *De Rerum Natura.*

Cicero, *Tusculan Disputations*, Book I for rapid reading.
First semester. Three hours. M., T., Th., 10:15.

7. Roman Satire. A study of Juvenal and Horace, and of the history of Roman Satire.

First semester. Three hours. (Omitted in 1913-14.)

8. Roman Comedy. Selected plays of Plautus and Terence. A reading course.

Second semester. Three hours. (Omitted in 1913-14.)

9. The Reign of Tiberius. Tacitus' *Annals*; Suetonius, *Tiberius*, and other writings bearing on the history and literature of the period.

Second semester. Three hours. M., T., Th., 10:15.

10. Virgil. The class will read the *Eclogues*, parts of the *Georgics*, and Books VII-XII of the *Aeneid*. Study of Sources, methods and literary influence of Virgil.

Second semester. Two hours. M., F., 2:15.

12. Course for Teachers. About one half of the time will be given to a study of the more important phases of Latin grammar and to prose composition. Part of the authors usually read in the high school course will be studied.

Discussion of problems connected with the teaching of Latin in secondary schools.

Through the year. Three hours. (Omitted in 1913-14.)

13. Journal Club. Reports on books and articles in the current journals, and discussion of general topics pertaining to the classics.

Through the year. One hour. Time to be arranged.

See also the course in *Classical Literature*, Greek 7; and the course in *Ancient History*, History 5.

GREEK.

A. Course for Beginners. Goodwin's *Grammar*, Goodwin and White's *Anabasis*.

A year course. Four hours. M., T., W., F., 9:15.

1-2. Xenophon, Homer. Selections from the *Hellenica* of Xenophon; Homer's *Odyssey*, selected portions. Systematic review of grammar.

Through the year. Four hours. M., T., Th., F., 2:15.

3-4. **Plato, Euripides, Aristophanes, Lucian.** Plato's *Apology* and selections from other writings; Euripides, *Alcestis* and *Iphigenia in Tauris*; Aristophanes, *Acharnians*; selections from Lucian.

Through the year. Three hours. T., W., F., 9:00.

5-6. **Thucydides, Aeschylus, Demosthenes.** Thucydides, the Sicilian Expedition; Aeschylus, *Agamemnon*; Demosthenes, *On the Crown*.

(Omitted in 1913-14.)

9. **Greek Testament.** A careful study, text and interpretation of selected passages in the Greek New Testament. Prerequisite: Greek A.

Through the year. Two hours. T., Th., 1:15.

7. **Classical Literature.** A study, through English translations, of the masterpieces of Greek and Latin literature, and of the influence of the classics upon the form and content of later literature.

First semester. Three hours. M., W., F. (Omitted in 1913-14.)

8. **Greek Philosophy and Its Relation to Christianity.** A survey of ancient philosophy, and of the more popular religious and ethical ideas, down to and including contact with Christianity.

First semester. Three hours. M., T., Th., 3:15.

ARCHAEOLOGY.

Professor Erickson.

1a. **Classical Archaeology.** A study of important centers of ancient civilization, as Knossus, Mycenae, Athens, Delphi, and Olympia. Study of monuments which are most important for a knowledge of Greek architecture and sculpture. Lectures on the minor arts. Emphasis is placed on the relation of archaeology to literature and history.

First semester. Two hours. T., Th., 2:15.

3. **Topography and Monuments of Rome.** The growth of the ancient city from its foundation to the fourth century; the topography of Rome; study of important monuments. Lectures on Roman architecture and sculpture.

First semester. Two hours. (Omitted in 1913-14.)

4. Pompeii and Roman Private Life. The excavations of Pompeii are studied and made the basis of a course of lectures on the life of the Romans.

Second semester. Two hours. T., Th., 2:15.

FRENCH.

Professor Harwood.

Associate Professor Simmons.

1 and 2. Elementary French. Grammar, reading, composition, dictation, and oral exercises. Fraser and Squair's French Grammar. Much attention is paid to pronunciation; and, as far as possible, French will be the language of the class-room.

Through the year. Four hours. M., T., W., F., 10:15.

3. Sophomore French. Reading and composition; supplementary reading and reports. The class-room work is, as far as possible, conducted in French. The following texts suggest the nature of the reading, rather than the actual works that may be read: Daudet's Short Stories; Mérimée's "Colomba"; Erckmann-Chatrian's "Conscrit de 1813"; De Vigny's "Cachet Rouge," etc.

First semester. Three hours. M., W., F., 9:00.

4. Sophomore French. A continuation of Course 3.

Second semester. Three hours. M., W., F., 9:00.

5. Advanced Reading. The texts will be chosen largely from the seventeenth century classics, and from the novels and dramas of the nineteenth century. A large amount of reading will be done; students will give frequent written and oral reports and summaries in French.

First semester. Three hours. M., W., F., 8:00.

6. Advanced Reading. A continuation of Course 5.

Second semester. Three hours. M., W., F., 8:00.

7. French Literature. General survey of the fourteenth, fifteenth and sixteenth centuries. Lectures, readings and reports.

First semester. Three hours. M., T., Th., 2:15.

8. French Literature. The seventeenth century. Lectures, readings and reports.

Second semester. Three hours. M., T., Th., 2:15.

9. French Composition and Conversation. Prerequisite: Courses 1 and 2 above. Except by special permission, may be taken only by students enrolled in some other course in French. Especially recommended to students taking French 3. Required of students who major in the department.

First semester. Two hours.

10. French Composition and Conversation. A continuation of Course 9.

Second semester. Two hours.

GERMAN.

Professor Harwood.

Associate Professor Jillson.

A. Course for Beginners. This course is arranged for students who have not met the college entrance requirements in German. The work, if satisfactorily done, will admit the student to the Freshman German.

Thomas' "Practical German Grammar," Part I. Reading, dictation, memorizing, reciting in German.

Through the year. Four hours. M., T., Th., F., 3:15.

First Year.

1 and 2. Freshman German. This course is intended to continue the work begun in the secondary schools. It is conducted in German, and the lessons are to be recited in part in German.

Study of the novel or the short story, three hours; prose composition, one hour.

Through the year. Four hours.

Section 1: M., T., W., Th., 11:15.

Section 2: M., T., Th., F., 2:15.

Second Year.

3. Sophomore German. This course is conducted entirely in German. Study of the works of Riehl, Rosegger, Saar, Storm, and others, with written reviews of the works read.

First semester. Three hours. M., T., Th., 3:15.

4. Sophomore German. This course is conducted in the same manner as 3. Study of the dramas of Freytag, Fulda, Grillparzer, Sudermann, and Wildenbruch.

Second semester. Three hours. M., T., Th., 3:15.

Third Year.

5. Lessing-Schiller. The principal plays of these two dramatists are studied. Written reviews of the works read.

First semester. Three hours. M., W., F., 11:15.

6. Goethe. This course is conducted on the same plan as the Lessing-Schiller course.

Second semester. Three hours. M., W., F., 11:15.

Fourth Year.

7 and 8. Course for Teachers. This course is designed for students who are intending to teach, and is open to those who have completed 5 and 6.

Composition on assigned themes, one hour; review of the grammar, one hour; recitation on readings from German newspapers and periodicals in addition.

The members of this class are called upon to conduct recitations, and are also given opportunity to act as substitute teachers.

Through the year. Two hours. T., Th., 1:15.

ENGLISH.

Professor Taintor.

Professor Nichols.

The work in English includes the study of Literature, and of Composition. The Literature courses, and also the first year work in the History of English Literature, are given by Professor Taintor. The courses in Composition are given by Professor Nichols.

The course known as English 1, including 1a and 1b, is a prerequisite for all other courses in English, and should be taken in the first year.

A course for Teachers, designed for those in the upper classes who are preparing to teach, will be given in alternate years. The course will include a review of the college entrance requirements under Professor Taintor in the first semester, and a review of the principles of composition under Professor Nichols in the second semester. This is a full year course, one hour a week. No credit will be given for less than a year's work.

ENGLISH LITERATURE.

Professor Taintor.

1a. The History of English Literature. A general survey of English literature from the earliest period to the Victorian age. Required of freshmen.

Through the year. Two hours.

Section 1: M., Th., 1:15.

Section 2: T., F., 1:15.

10. The American Poets. Readings from the representative poets of America. In connection with the course lectures will be given on the principles of Elementary Criticism.

This course should be taken when possible in the sophomore year.

First semester. Four hours. T., W., Th., F., 8:00.

3. Shakespeare's Historical Plays. This course is intended for juniors and seniors. It is open to sophomores only by special permission.

First semester. Three hours. T., W., Th., 10:15.

4. The Age of Milton. Special attention will be given to "Paradise Lost" and "Paradise Regained." Assigned readings and reports on the life and work of Milton. A brief study will be made of Bunyan's "Pilgrim's Progress." Not open to sophomores.

First semester. Four hours. M., T., W., Th., 11:15.

3b. Shakespeare's Comedies. This is intended as a sophomore course and should be taken before the other Shakespeare courses.

Second semester. Four hours. T., W., Th., F., 8:00.

9. The Bible as Literature. This course attempts to present the great variety of types of literature found in the Old and New Testaments, dealing with them as with similar types found elsewhere.

Second semester. Three hours. T., W., Th., 10:15.

2. Chaucer. This course is designed for those who desire a general acquaintance with Chaucer's poems, and an insight into the life of the fourteenth century. It consists chiefly in the reading of the poems, with frequent reports upon matters pertaining to his times. It requires no previous study of Middle English.

Second semester. Two hours. T., W., 11:15.

7. English Prose from Bacon to Ruskin.

Second semester. Two hours. Th., F., 11:15.

5. The Romantic Movement. Studies in the poems of Wordsworth, Coleridge, Scott, Byron, Shelly, Keats, with lectures on the age which they represent.

Four hours. T., W., Th., F., 11:15. (Omitted in 1913-14.)

6. The Age of Tennyson. Studies in the poems of Tennyson and Browning.

Four hours. T., W., Th., F., 11:15. (Omitted in 1914.)

3a. Shakespeare's Tragedies.

Three hours. T., W., Th., 10:15. (Omitted in 1913-14.)

12a. This course is given in connection with the course under Professor Nichols (12b, second semester), and should be taken only by those who plan to take the whole year's work.

One hour. T., 3:15. (Omitted in 1913-14.)

ENGLISH COMPOSITION AND PUBLIC SPEAKING.

Professor Nichols.

COMPOSITION.

1b. Freshman English Composition. A course in the principles of written and oral expression. The four forms of discourse, debating, letter writing, and criticism will be studied. Attention will be given to sentence structure, the paragraph, outlining, and correctness in detail. Daily and fortnightly themes will be required.

Text-books: "Manual of Composition and Rhetoric," Gardiner, Kittredge, and Arnold; "Specimens of Prose Composition," Nutter, Hersey, and Greenough.

Through the year. Two hours.

Section 1: T., F., 1:15.

Section 2: M., Th., 1:15.

2. Journalism. A course in the study of newspaper methods, reporting, editorial writing, and feature work. Lectures and assignments. Limited to ten.

First semester. Two hours. T., Th., 10:15.

3. Exposition. This course is intended for those who wish to continue their writing work in the sophomore year. It will consist of a study of exposition, scientific description, thesis work, note taking, and essay writing. A regular schedule of writing will be followed. Lectures and conferences.

Second semester. Two hours. T., Th., 9:00.

4. Advanced Composition. A course in short story writing, essay writing, and literary criticism, designed for those who show ability in work of this kind. Lectures and study of models. Writing schedule and conferences.

Through the year. Two hours. M., W., 8:00.

12b. Course for Teachers. This course is recommended to students who plan to teach English. It consists of a rapid and comprehensive review of the elements of composition. The work is carried on with a view to impress on the minds of teachers the fundamental principles of effective writing. This course is given in connection with course 12a under Professor Taintor.

Second semester. One hour. (Omitted in 1913-14.)

PUBLIC SPEAKING.

7. The Forms of Public Address. A study of the rhetoric, philosophy, psychology, and sociology of oratory, with special attention to the college oration. Outside reading, written address or college oration required. Lectures and conferences.

First semester. Two hours. M., W., 9:00.

8. The Literature of Oratory. A reading course in the masterpieces of oratory. Speeches of Burke, Henry, Webster, Lincoln and others, will be studied and analyzed in class. A schedule of outside reading will be followed. Theme work required.

Second semester. Two hours. M., W., 9:00.

9. Argumentation and Debating. A course in the study of argumentation and in the practice of debating. One hour a week will be given to text-book and lecture work, or to the study of theory and methods. Two consecutive hours will be given to practice debating once each week. The class is limited to sixteen, and will not be given for less than ten.

Through the year. W., 7:30-9:30 p. m.

10. Public Speaking. An elementary course in expression, designed for those who wish to study for greater ease and power in platform address. Committed, extempore, and impromptu work will be required. Some attention will be given to the training of the voice, proper breathing, and exercise. To gain the ability "to think on one's feet" will be the main object of the course.

Through the year. Two hours. T., F., 3:15.

HISTORY.

Professor Smith.

Students whose major work is in this department are required to take courses 1, 6, 7a, 7b, 8 and course 1 in Economics; and are required further to elect from courses 5a, 5b, 14, 15, 16, 17, 40, and 30, to the number of sixteen hours.

1. United States History. A lecture course developing, in the colonial period, the background of the Constitution; study of the Constitution, and its evolution in the nineteenth century, through interpretation. No text; but outside reading of 125 pages per week.

Second semester. Four hours. (Omitted in 1913-14.)

5a. History of Greece. This course is a general survey of the history of Greece from the earliest times to the fall of Corinth. Emphasis is laid on both the political and the constitutional aspects of the subject.

First semester. Four hours. (Omitted in 1913-14.)

5b. History of Rome. This course, which is designed to follow the History of Greece, and to constitute with that a year's work in Ancient History, is a general survey of the history of Rome from the earliest times to the era of Diocletian. As in the "History of Greece," emphasis is laid on both the political and the constitutional aspects of the subject.

Second semester. Four hours. (Omitted in 1913-14.)

6. Mediaeval History. This course is a survey of continental Europe from the barbarian invasions to the close of the fifteenth century. Special emphasis is laid upon the development of the Frankish power under the Merovingian rulers; the empire of Charlemagne; the rise of the papacy; feudalism; France under the Capetians; the Hohenstauffen rulers; the struggle of empire and papacy; Mohammedanism; the Crusades; monasticism; Germany and Italy in the later Middle Age; the Hundred Years' War; mediaeval culture; the rise of the towns; beginnings of the Renaissance.

This course is designed especially for freshmen.

First semester. Four hours. M., T., W., Th., 11:15.

8. Modern History. This course is a general survey of Europe from the close of the fifteenth century to the present day. It is designed as a continuation of Course 6.

The course lays emphasis upon the Renaissance; the Lutheran revolt; the Protestant revolt in Switzerland; the religious wars in France and the Netherlands; the Thirty Years' War; France under the Bourbons; the rise of Prussia; Russia as a European state in the modern period; the French Revolution; the Napoleonic Era; the revolutions of the nineteenth century.

This course is designed especially for freshmen.

Second semester. Four hours. M., T., W., Th., 11:15.

7a. English Political and Constitutional History. This course is designed as a study of the political and the constitutional history of England from the Teutonic conquest of Britain to the establishment of the Tudor dynasty.

Not open to freshmen.

First semester. Four hours. M., T., Th., F., 9:00.

7b. English Political and Constitutional History. This course is a continuation of Course 9. It embraces a study of the political and the constitutional history of England from the accession of the Tudors. Not open to freshmen.

Second semester. Four hours. M., T., Th., F., 9:00.

14. Europe in the 17th and 18th Centuries. This course is a study of the rise of France to pre-eminent power, and the beginnings of her decay; the rise of Prussia and Russia; England's expansion in these centuries; the French Revolution; the Napoleonic Era.

Prerequisite: Courses 7 and 8.

First semester. Two hours. (Omitted in 1913-14.)

16. Europe in the 19th Century. This course is concerned with a study of European affairs from 1815 to the present time. It lays emphasis upon the effects of the revolutionary movements of the century, the development of the ideal of nationality, the unification of Germany and of Italy, the British and Russian Empires in the nineteenth century; the Eastern question, the expansion of Europe.

Prerequisite: Courses 7 and 8.

Second semester. Two hours. (Omitted in 1913-14.)

30. American Government and Politics. Review of historical foundations; followed by brief general study of the federal and the state governments.

Not open to freshmen.

First semester. Four hours. M., T., Th., F., 1:15.

Text-book: Beard's "American Government and Politics."

25. International Law. Text-book and reading of cases. Not open to freshmen.

Second semester. Four hours. M., T., Th., F., 1:15.

Text-book: Wilson's International Law.

40. Teacher's Outline Course in American History. One half the hour given, in turn, to members of the class, for special reports. Special opportunity for those good at map work. Limited to juniors and seniors.

First semester. Two hours. To be arranged.

35. Municipal Government. Special reports on assigned cities, following scheme of a text as to particular topics treated.

Limited to juniors and seniors.

Text-book: Goodnow's "Municipal Government."

Second semester. Two hours. To be arranged.

ECONOMICS AND SOCIOLOGY.

Professor Marston.

1. The Principles of Economics. A general survey. Its purpose is to acquaint the student with fundamental principles, to open the field for a more detailed and extensive study, and to offer such rules and principles as are contributed to business success by the science of economics.

Through the year. Three hours. M., T., Th., 2:15.

2. The Principles of Public Finance. A general course embracing: (a) public expenditures, their nature, classification and relation to public welfare; (b) public revenues, their classification, nature and characteristics. Taxation will receive particular attention, including its nature, principles, sources, limits, incidence and influence, together with its particular forms, as the general property tax, income, inheritance and business taxes; (c) public credit, when and how employed, contraction of public debts, their classification, flotation, conversion, funding and redemption; (d) financial administration, the budget, its preparation, form and composition, the collection of revenue and war financiering.

First semester. Four hours. M., T., W., Th., 11:15.

4. Money, Credit and Banking. An examination of the value and functions of money, standards of value, currency systems of the world, a review of the positions of the bimetalists and the quantity theorists, systems and coinage of metallic currency, credit and credit documents, paper money, con-

vertible and inconvertible notes, clearing-houses, foreign exchanges. First and second banks of the United States, the national banking system, state banks and trust companies, note issues, deposit currency, loans, reserves, branch banking, asset currency, foreign banking systems; modern currency problems, including the relation of money and banks to commercial crises.

5. Modern Business—its Organization and Methods. Free trade and protection; vested interests; the modern industrial corporation, including its promotion, underwriting, common and preferred stocks, bonds, marketing, organization, accounting, relation to the state especially in regard to taxation, dissolution and liquidation; railroad transportation and freight rates, pooling, consolidation, community of ownership, discrimination, investments, speculation, abuse of fiduciary power, governmental ownership or control, with a comparison with foreign countries, interstate commerce commission with decisions under it, state commissions; and finally the relation of the state to modern industry in general.

6. Modern Business—its Law. An attempt will be made to acquaint the student with those legal principles and practices which are essential from the point of view of the business man rather than the lawyer, and with which every active citizen should be familiar. It will include contracts, negotiable paper, agency, partnership, corporations, bailments, guaranty, insurance, real estate conveyances, etc.

7. The Labor Movement. Including trade unionism and industrial federation, immigration, coöperation, profit-sharing, communism, workingmen's insurance, liability of the employer to the employee and the fellow-servant doctrine, arbitration and conciliation, important legal decisions affecting labor, labor legislation, competition of women and children, industrial education, consumers' league. The course will conclude with a critical examination of the claims of socialism.

8. Distribution. This course will include an historical study of the theories of rent, interest, profits and wages, with a critical examination of some of the important writers of today. The practical application of some of these theories will be made in a study of the distribution of wealth in the United States among the various economic classes at the present time, and its geographic distribution including the concentration of capital.

Second semester. Four hours. M., T., W., Th., 11:15.

SOCIOLOGY.

1. **Sociology.** A study of modern society, its origin, nature, functions and development from primitive man through the family, clan, tribe, and state, together with the forces and ideas manifesting themselves at the different stages in its growth.

First semester. Four hours. M., T., W., Th., 10:15.

2. **Problems in Sociology.** This course includes a study of the laws of population, and of the dependent, delinquent and defective classes, embracing such problems as degeneracy, poor relief, tenements, slums, social settlement, the liquor question, criminology and penology, methods of social reform, and other sociological problems of current interest.

3. **The Races of Europe.** Methods of classification, including head, form, color, stature and language; origins; the problem of the pre-Aryans and Aryans, and of the Caucasian or Indo-Germanic; the three European races; race and culture; race and environment; ethnic stratification and urban selection; the possible future geographical division of races. The lectures will be on a comparison of some of the recent social and economic tendencies of the European races as based upon the foregoing studies.

First semester. Four hours. M., T., Th., F., 3:15.

4. **General Sociology.** An examination of some of the leading sociological theories of modern writers, including those of Comte, Spenser, Kidd, Gumplowicz, Shaffle, Giddings, Ward, and Small. Taking Small as a basis, an attempt at a sociological interpretation of American development will be made. This will include a study of the political, economic, intellectual and religious interests in their associational process. Its aim will be to help the student to see the practical application of sociological theory to a modern society, and to appreciate some of the great problems with which that society has to deal.

Second semester. Four hours. M., T., Th., F., 3:15.

18. **Political Science 1.** This course embraces a study of the general principles of political science; its nature, scope, and methods; the essential constituent elements of the state; the functions and sphere of the state; citizenship and nationality; the electorate, etc.

Lectures, recitations and reports.

Text-books: Gettell, "Introduction to Political Science," and Gettell, "Readings in Political Science."

Second semester. Three hours. M., W., F., 10:15.

MATHEMATICS.

Associate Professor Sherwood.

Mr. Taylor.

1. **Algebra.** The first few weeks are devoted to a brief review of the topics covered by the college entrance requirements in algebra. The remainder of the course is given to the study of the elementary properties of quadratic equations, with special emphasis upon their graphical interpretation; progressions, permutations and combinations; binomial theorem; complex numbers; undetermined coefficients; and the general theory of equations and the elements of determinants.

First semester: Three hours.

Section 1: M., W., F., 8:00.

Section 2: M., W., F., 9:00.

2. **Plane Trigonometry.** This course covers the elementary theory of trigonometric functions and the elements of logarithms.

Second semester. Sections and hours the same as for Mathematics 1.

3. **Mechanical Drawing.** Use of instruments; graphical solution of comic sections; orthographic projection; isometric projection; development of surfaces; intersection of surfaces; working drawings; lettering; tracing.

Through the year. Three hours. M., T., Th., 2:15-4:15.

7. **Descriptive Geometry.** Problems relating to the point, line and plane; revolution and counter-revolution of objects, curved lines and surfaces; tangent planes; plane sections and developments of surfaces.

One recitation and three hours drawing.

Prerequisite: Mathematics 3.

Through the year. Two hours. M., 2:15, T., 2:15-4:15.

8. **Analytical Geometry.** The point; loci; the straight line; transformation of co-ordinates; the circle; conic sections, including a discussion of the general equation of the second degree; parametric equation. A brief course on the Analytical Geometry of three dimensions.

Students registering for this course are expected to register for Mathematics 9.

Prerequisite: Mathematics 1 and 2.

Through the year. Two hours. T., Th., 10:15.

9. Essentials of Calculus. Rates and limits; rules for differentiation; tangents and normals; maxima and minima; points of inflection; theorems of mean value; Taylor's theorem; curvature; definite and indefinite integrals; rules for integration; applications to finding volumes, center of gravity, moments of inertia, etc.

The traditional division of the Calculus into Differential Calculus and Integral Calculus has been largely disregarded in this course, but the principles of each are developed together. By this arrangement it is hoped the student will obtain a better grasp on the subject as a whole. The course is designed to give the student the necessary foundation in the fundamentals of the subject, and so arranged that he may be led by easy steps into simple applications of the Calculus to physical and engineering phenomena.

Prerequisite: Mathematics 8. Must be taken with this course, if not previously taken.

Through the year. Three hours. M., W., F., 10:15.

20. Advanced Calculus. This course supplements Mathematics 6, and is devoted to the more advanced and difficult topics of the subject. Special attention is given to such topics as: partial differentiation; definite integrals over curves, surfaces and volumes; simple differential equations; maxima and minima of two or more variables; infinite series, including a brief discussion of Fourier's Series.

Prerequisite: Mathematics 9.

First semester. Three hours.

Given in alternate years with Mathematics 19.

19. Theoretical Mechanics. Statics: Newton's Laws of Motion; dynamics of a particle; trajectories; friction; central forces; elementary theory of planetary motions; work and energy; momentum and impulse; dynamics of a rigid body; motion of system of particles; virtual work; centers of mass; moments of inertia; D'Alembert's Principle; Euler's Equations; generalized co-ordinates.

Prerequisite: Mathematics 9.

Through the year. Three hours. M., W., F., 11:15.

Given in alternate years with Mathematics 20 and 15.

15. Differential Equations. Integration of differential equations of higher order than the first, and of systems of differential equations; integration of linear differential equations by means of series; integration of partial differential equations and systems of such equations.

Prerequisite: Mathematics 6.

Second semester. Three hours.

Given in alternate years with Mathematics 19.

BIOLOGY.

Professor Talbert.

Mr. Kornder.

The department of Biology has courses that are well adapted for general culture, and for specialization. Those who intend to teach or study medicine, agriculture or forestry, will find suitable courses, and laboratories well equipped for these special subjects.

1. Comparative Anatomy of Invertebrates. The anatomy, and to some extent the physiology, of invertebrate animals are studied. Dissections and drawings are made of representatives of the most important classes of invertebrates.

Text-books: "Invertebrate Zoology for Laboratory Work," Pratt, and Shipley and MacBride "Zoology."

First semester. Four hours. T., Th., 8:00; Laboratory, M., F., 8:00-10:00.

2. General Botany. A study of the morphology and physiology of the types of all classes beginning with the unicellular forms and ending with the flowering plant, much emphasis being laid on the development from the evolutionary standpoint.

Text-book: Atkinson's "College Botany."

Second semester. Four hours. M., F., 3:15; Laboratory, W., S., 8:00-10:00.

3. Comparative Anatomy of Vertebrates. This course is designed to give an idea of the life history of vertebrates. The frog is taken as a type, and a fairly complete study is made of its natural history, anatomy, physiology, and development. Instinct, intelligence, adaptation to environment, etc., are also discussed. This is followed by a comparative study of different types of chordates like the balanoglossus, amphioxus, pet-

romyzon, shark, necturus frog, pigeon and some mammal, which is intended to give the student comprehensive knowledge of the structure and development of vertebrates in general.

Text-books: "Vertebrate Zoology for Laboratory Work," Pratt, and Shipley and MacBride "Zoology."

Second semester. Four hours. T., Th., 8:00; Laboratory, M., F., 8:00-10:00.

4. **Histology.** The student who has completed course 3 on the gross anatomy of animals, is prepared to study the microscopic structure of the various tissues. Each student prepares sections, stains, and mounts tissues, and makes drawings from his own preparations and from slides belonging to the department.

Prerequisite: Course 3.

Text-book: "Histology," Hill.

First semester. Four hours. T., 11:15; Laboratory, T., Th., F., 1:15-3:15.

5. **Embryology.** Work is confined to the embryology of vertebrates, the frog and the chick serving as types. The laboratory is provided with an incubator, and each student makes preparations of the different stages of development of the types studied.

Prerequisite: Courses 3 and 4.

Text-book: Lillie's "Development of Chick."

Second semester. Five hours. M., W., 11:15; Laboratory, M., T., Th., 1:15-3:15.

6. **Bacteriology.** This course is intended to give training in bacteriological technique, and to give a knowledge of the principles of bacteriology. The characteristics of a number of typical bacteria are worked out in detail, and then the names of unknown species are determined. Experiments are performed, illustrating the physiological characteristics of bacteria. Quantitative analyses are made of air, milk, water and soil. Those who desire this course as a preparation for Agriculture, can make suitable arrangements as to hours and special work.

Text-books: "Laboratory Manual," Frost; and "General Bacteriology," Jordan.

First semester. Five hours. Th., 10:00; Laboratory, M., T., Th., 1:15-3:15.

7. Physiology. This course is especially valuable to those intending to study medicine. It will also be found helpful by students intending to teach, and by those taking courses in psychology. The subject is taught by lectures, recitations, demonstrations and laboratory work. Much attention is given to muscle and nerve preparations, extrinsic and intrinsic action of the heart, blood pressure, vasomotor action, mechanical and chemical action of respiration, tests for foods and the artificial digestion of foods, functions of brain and spinal cord, and special senses.

Text-books: "Introduction to Physiology," Porter, and Howell's "Text-book of Physiology."

First semester. Five hours. T., W., Th., 9:00; Laboratory, W., 1:15-4:15.

8. Paleontology. This is a course for the study of extinct animals, which is especially valuable for those who have studied Comparative Anatomy and Embryology. The former is considered a prerequisite, while the latter would be helpful. This subject will give a student a clearer insight into the evolutionary developments of animals. The museum is well equipped in fossils, especially those of the Wisconsin formations. The laboratory work consists of a study of these fossils.

Text-books: "Extinct Animals," Lankester; "Paleontology," Zittel.

Second semester. Two hours. T., Th., 11:15.

9. Agricultural Botany. This course is especially adapted for students who are interested in agriculture and forestry. While some time is devoted to morphology and physiology, especial emphasis is placed upon the classification of cultivated plants and their parasitic fungi.

General Botany, Course 2, is recommended as a prerequisite.

Text-books: Percival's "Agricultural Botany," with references in the various agricultural experimental station publications.

Second semester. Four hours. M., F., 1:15; Laboratory, T., Th., 2:15-4:15.

10. Physiology and Hygiene. This course is open, without prerequisites, to all college students. Only enough anatomy is studied to give the necessary foundation for an understanding of the workings of the human body. Much of the

time of the course is devoted to questions of personal hygiene and the public health. Lectures, demonstrations, and recitations, with a few laboratory exercises.

Text-book: Martin's "Human Body," Advanced.

Second semester. Four hours. M., T., W., F., 10:15.

11. Journal Club. This course consists mainly of the review of articles in the biological journals. Only students who are making biology their major subject are admitted to this class.

Through the year. One hour.

CHEMISTRY.

Professor Gilman.

Mr. Rottman.

The department of Chemistry, in a variety of courses, offers to the students ample facilities to prepare themselves for modern laboratory practice. The work of the first year consists of a thorough course in general chemistry and qualitative analysis, including lectures, recitations, and laboratory experiments. During the second year the students are given a systematic training in analytical methods, which is followed in the third year with courses in organic chemistry, and in the fourth year with courses in physiological and industrial chemistry. To students intending to pursue the study of medicine, opportunity is given to prepare for meeting the requirements now prescribed for candidates by the foremost medical schools of the country.

First Year.

1. General Chemistry. The work in this department begins with a course in elementary inorganic chemistry, with laboratory practice. It includes a study of the fundamental laws, and the non-metallic elements and their compounds. Lectures, recitations, quizzes, problems.

Prerequisite: Elementary Physics.

First semester. Four hours. W., 9:00; Th., 10:15; F., 11:15; Laboratory, M., F., 8:00-10:00; or T., Th., 8:00-10:00.

2. Qualitative Analysis. This is a continuation of course 1. A careful investigation of the metallic elements and their compounds is made during the first part of the semester, and the remainder of the time is devoted to Qualitative Analysis.

Prerequisite: Chemistry 1.

Second Semester. Four hours. Th., 10:15; F., 11:15; Laboratory, M., F., 8:00-10:00; or T., Th., 8:00-10:00.

Second Year.

3. Quantitative Analysis. Lectures, recitations, and laboratory practice in the use of the methods of gravimetric and colormetric analysis; separation and estimation of metals, acids, and water of crystallization.

Prerequisite: Chemistry 2.

First semester. Four hours. Th., 11:15; Laboratory, M., T., Th., 1:15-3:15.

4. Analytical Chemistry. This is a continuation of course 3. Special applications of volumetric analysis; analysis of alloys, mineral and water analyses.

Prerequisite: Chemistry 3.

Second semester. Four hours. T., Th., 11:15; Laboratory, T., Th., 1:15-3:15.

Third Year.

6. Organic Chemistry. A course in general organic chemistry. Lectures, recitations, and laboratory work. The Aliphatic Series with special reference to the more important hydrocarbons and their derivatives.

Prerequisite: Chemistry 4.

First semester. Five hours. M., W., F., 10:15; Laboratory, S., 8:00-12:00.

10. Advanced Organic Chemistry. The Aromatic Series. Lectures, recitations, and laboratory work.

Prerequisite: Chemistry 6.

Second semester. Four hours. M., W., 10:15; Laboratory, M., F., 1:15-3:15.

Fourth Year.

5. Medical and Physiological Chemistry. A technical course for those who are preparing for the medical profession. This includes the examination of blood, muscular tissue, gastric digestion, testing of milk, and urinary analysis.

Prerequisite: Chemistry.

First semester. Five hours. T., Th., F., 3:15; Laboratory, M., F., 1:15-3:15.

12. Industrial Chemistry. Lectures and collateral reading, and laboratory practice. The subjects are: Cement, mortar and building material, milk products, cereals, starch, sugar, meat, oils, fats and soaps. Bleaching and dyeing. Tanning.

Prerequisite: Chemistry 6.

Second semester. Four hours. M., W., 11:15; Laboratory, S., 8:00-12:00.

9. History of Chemistry. This course is designed for advanced students. During the first semester a study will be made of the history of chemistry, and during the second semester the historical development of the important theories of chemistry.

Prerequisite: Chemistry 4.

One hour. Time arranged on consultation.

8. Research Work. This course is designed for advanced students in chemistry. Special subjects, and the amount of credit, will be arranged on consultation with the instructor.

11. Journal Club. This course consists of discussion of articles appearing in the scientific magazines. An elective course for students in advanced Chemistry.

One hour through the year. Time arranged on consultation.

PHYSICS.

Professor Barber.

Mr. Taylor.

Physics A-B. An introductory course in physics for students who wish to become acquainted with the results, methods, and spirit of the science, whether they intend to pursue its study further, or wish an elementary knowledge of physics only as a matter of general information. This course is arranged primarily for students who do not present elementary physics for entrance.

Text-book: "First Course in Physics," Millikan and Gale.

Through the year. Four hours. Arranged on consultation.

General Physics. Fundamental principles of physical science for those contemplating the study of any pure science, or engineering, or medicine, or teaching, are presented mainly from the experimental standpoint. The instruction in lectures,

recitations, quizzes, problem papers and private readings is entirely concerned with the principles studied in the laboratory and the practical applications of the same. In this manner, a thorough grasp of foundation principles is obtained, by continually connecting theory and experiment.

The laboratory work is exclusively quantitative, the aim being to present the subject as a science of exact measurement. The apparatus is all new, and much of it but recently designed for this particular line of work. With it, the student is put in touch with the methods and instruments of modern physical investigation.

Prerequisite: Trigonometry.

General Reference Text: "Physics," Watson, or "College Physics," Reed and Guthe.

1. Mechanics, Molecular Physics and Heat.

Text-book: "Mechanics, Molecular Physics and Heat." Millikan.

First semester. Five hours. T., Th., 9:00; Laboratory, M., W., F., 8:00-10:00.

Second division arranged on consultation.

2. Electricity, Magnetism, Sound and Light.

Text-book: "Electricity, Sound and Light," Millikan and Mills.

Second semester. Five hours as above.

3. Advanced Course in Light. Geometrical and Physical Optics will be treated in detail. Under the former head, some of the most important optical instruments will be studied; under the latter, the wave theory of light will be developed.

This course aims to be a practical and useful study of optics, as well as to give a careful scientific explanation of many optical phenomena of common experience. Spectroscopy, diffraction, dispersion, interference, and polarization will be discussed thoroughly in lecture and recitation, and this discussion followed by accurate measurements in the laboratory, which is thoroughly equipped for this work.

Prerequisite: Courses 1 and 2. Calculus is advised but not required.

Text-book: "Light for Students," Edser.

Reference text: "The Theory of Light," Preston.

First semester. Four hours. T., Th., 11:15; Laboratory, M., F., 1:15-3:15; or S., 8:00-12:00.

4. Advanced Course in Heat and Molecular Physics. The aim of this course is to give a comprehensive view of the science of heat in its theoretical and experimental aspects. It has been found to be of especial value as an introduction to the graduate courses in physical chemistry and mechanical engineering as offered in the universities and technical schools. The laboratory exercises consist of exact measurements in mercurial and air thermometry, calorimetry, mechanical equivalent of heat, coefficients of expansion and conductivity, vapor pressures and densities, freezing and boiling points, latent and specific heats, hygrometry and pyrometry. Particular attention will be given to the errors peculiar to heat measurements and the elimination of the same.

Prerequisite: Courses 1 and 2.

Text-books: "Heat for Advanced Students," Edser. Reference text: "Theory of Heat," Preston.

Second semester. Four hours. T., Th., 11:15; Laboratory, M., F., 1:15-3:15; or S., 8:00-12:00.

5. Mathematical Theory of Electricity and Magnetism. This course discusses the fundamental principles of the mathematical theory of electricity and magnetism and their more important applications.

Prerequisite: Courses 1, 2, and Calculus.

Course 6a is designed to accompany this course.

Text-book: Foster and Porter's "Electricity and Magnetism" founded on Joubert's "Traité Élémentaire d'Électricité."

First semester. Three hours. M., W., F., 11:15.

6a and 6b. Electrical Measurements. A laboratory course of systematic instruction in precise electrical measurements for students of Physics and Electrical Engineering.

Prerequisite: Courses 1, 2, and Calculus.

Text-books: "Electrical Measurements," Carhart and Patterson. "Practical Electrical Testing in Physics and Electrical Engineering," Parr.

Through the year. Two hours. Laboratory periods arranged on consultation.

7. Electron Theory. This course will be concerned with the development of the so-called "machinery" of the electron theory. Particular attention will be given to the very recent literature of the subject contained in the scientific magazines. Many of the facts and theories of the "Kinetic Theory of

Gases" will be shown to have a physical as well as a mathematical basis.

Prerequisite: Courses 1, 2 and 5.

Second semester. Three hours. M., W., F., 11:15.

8a and 8b. Colloquium. At the weekly meetings the students present before the class, for informal discussion, subjects not treated in the class-room, and reviews of articles appearing in the scientific journals. The course also aims to teach the student the efficient use of a reference library, and of the various indexes and catalogues. Each student is required to prepare a bibliography of some one physical subject. The work of the colloquium has an excellent effect in training students to present their ideas in a systematic manner before an auditory.

Open only to students who take their major or minor in Physics.

Through the year. One hour. Arranged on consultation.

9. History of Physics. A course devoted to readings and discussions, in order that the student may become acquainted with the historical development of Physics.

Open only to juniors and seniors in Physics.

Text-book: "History of Physics," Cajori.

Reference text: "History of the Inductive Science," Whewell.

Second semester. One hour. Arranged on consultation. This course will alternate with 8b.

10. Course for Teachers. A course designed especially to meet the needs of students who expect to teach Physics in the secondary schools.

Prerequisite: Courses 1, 2, 3, and 4.

Second semester. Two hours. Arranged on consultation.

MUSIC.

Professor Bintliff.

Courses in the Theory and History of Music as outlined in detail in the pages devoted to the School of Music will be credited as college electives. The maximum amount of credit allowed toward the degree of Bachelor of Arts will be twelve hours.

The College Awards

DEGREES.

Bachelor of Arts. The degree of Bachelor of Arts is conferred by the Board of Trustees, after recommendation by the Faculty, upon those candidates who have completed the collegiate requirements. These are as follows: A total credit of one hundred and twenty semester hours in the college courses; at least 124 honor credits, or an average mark in all subjects of C or higher; an acceptable thesis upon some theme related to the major subject of his course, or, as a substitute for the thesis, an advanced course during the senior year. The time required for the fulfillment of these conditions is usually four years.

Master of Arts. The degree of Master of Arts may be conferred upon any graduate of this College, or of any college offering substantially equivalent courses, who shall have completed an approved course of non-professional study equivalent to an additional year of college work, one-half of which, at least, is in a single department or in closely related departments. This work may be done during one year in residence at the College, or in the case of graduates of this College, during two years of non-residence. Examinations are required in all work of the approved course, and a satisfactory thesis upon some phase of the course must be presented at least one month before the close of the college year. Fees for all special examinations and the usual fee for the diploma are required.

PRIZES AND HONORS.

The following prizes are open to competition:

Mrs. John James English Prize Fund. These prizes are paid from the interest of a fund of \$1,500 given by Mrs. John James, of Boston, for the encouragement of English Composition in the College. Each prize will amount to about \$15; the second prize to \$10.

Prizes will be awarded the two successful contestants in the freshman class, on the basis of clearness of style, excellence in punctuation, in sentence and in paragraph structure, as shown in the manuscripts of the freshman year English exercises.

These prizes will be awarded to members of the sophomore and junior classes. The assignment of the prizes will be based on excellence in writing, but the competing compositions may concern themselves with any subjects of general or academic interest. Sophomores or juniors who wish to become candidates for these prizes, should hand their productions to either of the professors in English, on or before May 1.

Prizes will not be awarded in any class for inferior work, or if there are less than twelve contestants.

Class of 1891 Prize for Oratory. A silver cup, valued at \$65, upon which shall be inscribed from year to year, between 1906 and 1915, the names of the winners in the home oratorical contest. The cup is to be the property of the College, and will be kept on exhibition in some suitable place.

J. T. Lewis Prize Fund. This was established by Hon. J. T. Lewis, of Columbus. The annual income of a fund of \$200 will be awarded to the student who prepares the best set of notes and drawings on the biological work of the freshman year. It will not be granted for inferior work.

Class of 1896 Memorial Prize Fund. The income, about \$20, of the Memorial Prize Fund of the class of 1896, will be awarded the successful contestant in a declamatory contest between members of the junior class each year.

Prize Scholarship. To encourage students of special promise in graduate study, a friend of the College offers, as a prize, one year's tuition in the graduate school of either the University of Chicago or the University of Wisconsin. This prize is open to students of History, Economics, Law, Language and Literature, Philosophy, or Education. The award is made by the faculty to the member of the senior class who shows the greatest proficiency in the studies of the undergraduate course and the best preparation for graduate study.

Department Fellowships. The head of each department has the privilege of recommending, for ratification by a vote of the Faculty, one advanced student of high standing as Fellow in the department.

The Rhodes Scholarships. In order to keep this well-known bequest before the minds of present or prospective students, it is briefly mentioned here. Circulars of full information can be obtained at the registrar's office. Any male student, who is a citizen of the United States and unmarried, not

less than nineteen nor more than twenty-four years of age, and who has reached the end of his sophomore year of study, may be a candidate for one of the Wisconsin scholarships. This insures to the winning contestants among the schools of the State a three-year residence in Oxford University, England.

All competitors must be prepared to take an examination in the following subjects: Arithmetic, the elements of Algebra or the Elements of Geometry, Greek and Latin Grammar, translation from English into Latin, one Greek and one Latin book from authors such as Caesar, Cicero, Livy, Horace, Virgil, Homer, Xenophon, Plato, Sophocles, Euripides, and Demosthenes.

University Fellowship. The University of Wisconsin, through its President, has extended to Ripon College an invitation to appoint one of its graduates each year to a Fellowship in the University. The value of this Fellowship is \$225 a year.

The College Administration

THE COLLEGE YEAR.

The College year is divided into semesters. For the coming year the first semester begins on September 9, 1913; the second on January 26, 1914. A number of courses, complete in themselves, begin in the second semester. Students who enter College at that time, will be able to avail themselves of such courses.

Besides the usual legal holidays, there are two vacations during the year, one at Christmas and one at Easter. The Easter vacation for 1913 begins on Thursday, March 20, at 4:15 p. m., and ends at noon Monday, March 31. The Christmas vacation for 1913 begins on Friday, December 19, at 4:15 p. m., and ends at noon Monday, January 5, 1914. The Thanksgiving recess begins at noon on the Wednesday preceding Thanksgiving Day, and ends at noon on the Monday following.

GOVERNMENT.

The College has few rules governing the conduct of students. In general it is expected that they will conduct themselves in an orderly way, with due regard for the rights of others, and in such manner as will conduce to best work in College.

Students are forbidden to smoke on the campus or athletic field. Visiting saloons is considered sufficient cause for dismissal from College.

In matters of general order or common interest, the students are represented by an Advisory Council, which meets with the college officers of discipline. This Council consists of five students, who are selected by the faculty from the whole student body.

The policy of the College toward student activities is to put each under a Board of Control, consisting of a representative of the Board of Trustees, two members of the faculty, and two students. This Board has general oversight of the finances and policy of the activity which it represents. All details, however, are managed by the student officers. This method is employed in the control of the Dormitories, Commons, Oratory and Debate, and Athletics.

COLLEGE EXERCISES.**Class Records.**

Examinations are held at the end of each semester, or at intervals during the semester, in all courses. At the end of each semester the marks are handed in, and the record for that semester is closed.

Class Standings are indicated by letters. A, B, C, D, are passing. If a student fails in a course, credit can be secured only by repeating the course in class. If a student is conditioned in a subject, the condition must be removed by examination taken on the day appointed for this purpose. The date for removing conditions of the first semester is the last Wednesday in February, and for condition of the second semester, the first Wednesday in October. A general average of C in all subjects is required.

Reports of standings are sent at the close of each semester to the students' parents.

Absence from Class or Chapel.

Regular Attendance is expected on all class and laboratory exercises and on Chapel and Vesper services. If the absences in a given course exceed by one the number of semester credits in that course, the student is immediately dropped from that class, and can return only after being reinstated by the Dean of the College, with the concurrence of the Professor in charge. After being reinstated, a student is dropped for an additional absence. Chapel absences to the number of fifteen are permitted during a semester, a Vesper service counting as four chapel services. For each absence in addition to the fifteen, two honor credits will be deducted from the student's honor credits for the semester.

If, for any good reason, a student is excused from chapel, he will be required to make ten honor credits per semester in addition to the number required of all students.

A student who is absent from the last recitation period preceding the Christmas or Easter vacation, or the Thanksgiving recess, or from the first recitation following such vacations, will not be allowed to take the regular final examination in the subject missed, but may take it when the next regular examination in the subject is given.

College Publications

THE BULLETIN.

The Ripon College Bulletin is issued six times per year—in January, March, May, July, September, and November. The March issue is the regular catalogue number.

COLLEGE DAYS.

College Days is a weekly publication. It is issued by a board of editors elected by the student body. It is now in its forty-sixth year. It aims to record the various phases of campus life. To this end, it occasionally publishes articles by professors and students, either the records of personal experiences or the results of special investigation. It has aimed to keep in touch with sister colleges, has noted the goings and comings of alumni, and has endeavored to record, in lighter vein, the pleasures and pastimes of the students.

THE CRIMSON.

The Junior Class publishes a Ripon College Annual known as The Crimson. It is a book of college life, dealing, among other things, with the faculty, class and student organizations, social life, and athletics.

Buildings and Equipment

THE COLLEGE BUILDINGS.

Ingram Hall, completed in 1900, and named after one of its principal donors, Mr. O. H. Ingram, of Eau Claire, is the main lecture hall of the College, and contains the College Library. On the first floor are situated the offices, the lecture-rooms, and laboratories of the departments of Biology and of Physics, and also the stack-room of the Library. The second floor is occupied by lecture-rooms, and by the reading-room and office of the library. On the third floor are the Chemical laboratories and the lecture-rooms of the department of Philosophy and Education.

East College, the first building erected on the college campus, has been entirely remodeled. It now contains the offices of the College, and the studios and practice-rooms of the School of Music. The Young Men's and Young Women's Christian Associations also have rooms in this building.

Middle College, now called Smith Hall, in memory of the late Elisha D. Smith, of Menasha, was opened as a dormitory in 1903. It is heated by steam, lighted by gas and electricity, and thoroughly equipped throughout. Besides the student apartments, this hall contains a reception-room, and in the basement an excellent bowling alley.

West College contains the College Commons. By means of funds provided by the Alumni, the first floor has been made into a thoroughly equipped modern dining-room. The Co-operative Dining Association, which has charge of the Commons, provides a most excellent quality of board at small cost. The dining-room is large, finished in oak, is well lighted, and has two open fireplaces. There are ample cloak and waiting rooms, and the kitchen and serving-rooms are models of convenience, making it possible to serve the best meals at the lowest expense. This Alumni Hall adds much to the comfortable living of the students. The second and third floors of West College are used as dormitories for men, and are equipped in the same thorough manner as the rooms in Smith Hall. The dormitory has also a large, pleasantly situated, and attractively furnished common room.

Bartlett Cottage, the Dormitory for women, named in honor of the late Sumner Bartlett, of Oshkosh, is situated at the southwest corner of the campus, just opposite the President's house. It is steam-heated throughout, and is supplied with hot and cold water. The suites for students consist of a study and bedroom, with the heavier pieces of furniture. In addition to these, the building contains a reception-room and a library, a guest-room, and also a kitchen and dining-room for occasional use. The reception-room is at the left of the entrance corridor; the rooms occupied by the resident Faculty member, Miss Simmons, are at the right. Through the generosity of the Advancement Association, the interior of the building has recently been made practically new.

Dawes Cottage. This is a frame building, now used as a dormitory for men, and is also the home of the engineer of the College.

Society Hall. The Old Chemical Laboratory, vacated when Ingram Hall was built, has been remodeled for other purposes. The north room is used for band practice, for debating societies and other men's clubs, on permission from the College office. The south room is used by the department of Mathematics, and is well equipped for the work of mechanical drawing.

The President's House. Dr. Merriman built for himself a large house just south of the College campus. This house is now the property of the College, and is the residence of the President of the College.

Central Heating Plant. A complete central heating plant has recently been installed. The system results in increased comfort in the buildings, and in a large saving in cost. The steam supply pipes connecting the various buildings with the boilers, are so thoroughly insulated in the conduits, that the waste from radiation is reduced to a minimum. The boilers carry high-pressure steam, and there is room in the boiler house for installation of dynamos for the production of light and power. This heating system has proved a success from every point of view.

The Gymnasium. The Indoor Athletic Field is of the best type of gymnasium architecture, and offers many unusual advantages for physical training and development.

The central portion of the indoor athletic field has a hardwood floor, 80 by 50 feet for basketball, indoor baseball, tennis, and such games. Around the floor is a running-track, 17 laps

to the mile, with an earth floor. This affords sufficient space for early Spring training in all track and field sports, and for football and baseball, when the weather prohibits the use of the Ingalls Athletic Park.

The seating arrangement and gallery make it convenient for public intercollegiate athletic sports, and serve the purpose of an auditorium for college events.

The south section of the building contains the shower-baths, locker, rubbing and drying rooms.

The plans for the completed building include two wings. They will contain all the essential features of a modern gymnasium. The first floor of the men's section will be equipped for college club-rooms. The second floor will contain the gymnastic apparatus for calisthenics. The woman's section will be similar, having club-rooms and upper floor gymnasium. Each of the wings will be 90 by 50 feet.

THE COLLEGE EQUIPMENT.

The College Library occupies large central rooms on the first and second floors of Ingram Hall. The main reading-room is on the second floor, and there is also a reading-room on the first floor in connection with the stack-room.

The library, according to the latest accession number, contains 19,573 volumes, exclusive of pamphlets, of which there are about 3,000. The aim of the College in the library has been to get the best books by the best men. The result is an excellent working library, containing standard editions, critical works, books of reference, bound periodicals, etc.

In addition to the library and reading-room facilities on the campus, students have access to the city library, now in the new Carnegie building, one block from the campus. The college library and the city library are largely supplementary, the former being strong in works of reference, the latter naturally furnishing books of more general interest. Both are open with a uniform rule to students and citizens.

The Department of Religious Education has a good collection of appliances for modern religious education, including the leading graded text-books on the Bible, complete sets of the Tissot and Wilde pictures and those of the Presbyterian Board, and numerous books and other materials of value to those engaged in Sunday School work, or preparing for it. The department provides actual work in selecting and preparing materials for the various grades, and in teaching classes in a thoroughly graded school.

The library is maintained in part by the income of a special gift for the purpose from Mr. Andrew Carnegie.

Harry D. Clark Collection. The interest of a fund, raised by the class of 1898, as a memorial to their deceased classmate, Harry D. Clark, is available for the purchase of books. There are 183 volumes in this collection.

Benjamin Franklin Thomas Collection. The Thomas scientific library of physics was willed to the college library by the late B. F. Thomas, of the class of 1874. Dr. Thomas was Professor of Physics at Ohio University. There are about 400 volumes in this collection.

Other special collections in the library are: Clarissa Tucker Tracy Collection (71 vols.); Ripon Oratorical Union Collection (30 vols.); Delta Phi Sigma Collection (10 vols.); John James Collection (44 vols.). These collections are increasing each year.

The Department of Biology occupies the east end of the first floor of Ingram Hall. Its equipment comprises four laboratories, one each for Anatomy, Bacteriology, Physiology, and one for Histology and Embryology. All are equipped with the best and newest apparatus. The vivarium and the injection rooms are in the basement. Adjoining the laboratories is the lecture-room. Storage and preparation rooms adjoin.

Important additions are being made each year to the equipment of these already well-equipped laboratories. Several hundred dollars' worth of apparatus is in duplicate for student work. This apparatus, as well as the laboratory manual used, is the same as that in use at the Harvard Medical College.

The Department of Physics occupies the west end of the first floor of Ingram Hall. This part of the building is particularly free from disturbances, well lighted, and admirably adapted for a physical laboratory. Every room is provided with sinks, gas and electric light connections, and electricity from a bank of storage cells located in the basement. Four slate-capped piers of masonry rising from deep in the ground serve for experiments requiring unusual stability. A large and convenient dark room, complete in its appointments, is provided for work in optics, photometry and photography. This is an interior room and also serves for a constant temperature room, as the building is heated by steam with thermostatic control.

The laboratories have all been remodeled and during the past few years newly equipped with the best grade of physical apparatus.

The aim of the department is to present the subject of Physics as a science of exact measurement, with particular emphasis on the physical principles involved. Consequently, the apparatus found in this laboratory has been selected with special reference to its ability to yield accurate results in the hands of average students. The equipment for courses in general physics, optics, heat, and electrical measurements is unusually complete, meeting all the demands of a thorough course in each of these subjects. Every student in the laboratory receives the personal attention of the head of the department, and is continually in receipt of instruction and suggestion by personal contact, which is the most valuable way in which information can be given.

The Department of Chemistry occupies the third floor of Ingram Hall; it has a large lecture-room, with a stock-room in close connection. The stock-room is conveniently arranged for chemicals and apparatus. Across the hall are the office, library and balance-room, and the laboratories for general chemistry, qualitative, and quantitative analysis. There are also laboratories for organic chemistry and for private research. All laboratories are supplied with hoods and with individual desks, and each desk is furnished with lockers, gas and water. The lecture-room has every facility for demonstration, and the department is well equipped throughout.

Archaeological Collections. The departments of Latin and Greek possess an unusually fine collection of archaeological material. There are several thousand carefully selected photographs and slides, illustrating Greek and Roman history, geography, life and art. Also a small but carefully chosen collection of antiquities of special interest to students of the classics. There are 250 different Roman coins of the most important reigns of the Empire; more than fifty terra cotta lamps illustrating all the types, many of which are figured; Etruscan, Greek and Roman vases, dating from 750 B. C. to about 300 B. C.; bronze fibulae, keys, letter stamps, bone stili, spoons, dice, etc.; several fine specimens of glass from Greece and Italy; inscribed amphora handles, and numerous other articles connected with the daily life of the ancient Romans.

The Barber Collection of Minerals. The nucleus of this collection was given to the College by the Rev. Geo. W. Bar-

ber. This is supplemented by the New Orleans Collection, from the New Orleans Exposition; and by the Armstrong collection of 500 minerals and rocks.

In addition to these collections is the "Educational Series of Rocks," furnished by the United States Government, and several valuable specimens from the mining regions of Wisconsin and Michigan.

Biological Museum. This contains a collection of invertebrates and vertebrates, systematically arranged. The study of the few typical forms of animals studied in the laboratory can thus be supplemented by an investigation of the greater variety of forms to be found in the museum.

An interesting and valuable part of the exhibit is the Congdon collection of birds' eggs. These eggs, representing a large amount of research carried on in Wisconsin and Canada, were collected by Russell T. Congdon of the class of 1903.

The College Life

STUDENT FELLOWSHIP.

One of the inherent advantages of colleges of the size of Ripon is that students are brought into closer relations with their instructors, and into sympathy with one another. The College is a social democracy. In class-room, at the commons, in the dormitories, and on the campus, the equal rights and equal privileges of all students are fully recognized. Class or college functions through the year, sometimes initiated by the students, sometimes by members of the faculty, contribute to the social enjoyment of the students.

RELIGIOUS LIFE.

The College is distinctly Christian, and regards the development of Christian character as its greatest work. It is unsectarian in its management. On entrance, the student names the church of his preference. Lists are sent to the pastors of these churches. Every student is given a definite personal welcome in the church of his choice.

Once each month a special Vesper Service, under college auspices, is held in the Congregational Church. This is made possible by the courtesy of the Church, and the co-operation of the pastor. Often an exchange is effected with a minister from Wisconsin or from a neighboring state, who addresses the students on some vital and practical theme.

At other times a layman, prominent in religious work, is secured. The Chapel Service is held four days in each week. Attendance at the Chapel Service and at the monthly Vesper Service is required. All other services are voluntary.

The prayer meeting on Tuesday evening, the Association meetings on Sunday and Thursday afternoons, and the Bible study class, are under the management of the Christian Associations. These associations send delegates to the various state and national conferences. At the beginning of the college year members of the associations meet all trains, and welcome new students.

THE YOUNG MEN'S CHRISTIAN ASSOCIATION.

During the formative period of college life there is great necessity for symmetrical development, for a balancing of intellectual with spiritual growth. The College Y. M. C. A. recognized this necessity, and organized for the purpose of aiding this harmonious development. In opening its doors to all young men of the College, the association aims to extend its sphere of influence as far as possible. Although distinctly a student organization, the association has the active support of the faculty, some of them being members, and many leading in the meetings. In order to keep in touch with the larger movement, the College Y. M. C. A. aims to be represented regularly at the state conventions, and also at the yearly conference of college men held at Lake Geneva.

THE YOUNG WOMEN'S CHRISTIAN ASSOCIATION.

The object of the Young Women's Christian Association is the development of Christian character in its members, and the prosecution of active Christian work, especially among the young women of the institution. The active membership of the association consists of women connected with the College, who are members of the Christian churches. Any woman in the College may become an associate member. The association is affiliated with the international organization.

THE ORATORICAL UNION.

The Oratorical Union, under its present constitution, controls oratory, debate, and the "College Days." The Union holds membership in the Wisconsin Intercollegiate Oratorical Association, and also in the Interstate Oratorical Association. Several intercollegiate debates are held each year.

ATHLETICS AND PHYSICAL TRAINING.

The College encourages outdoor athletic games among the students. To encourage as many as possible to participate, interclass and dormitory games are arranged. This College is a member of the Wisconsin Intercollegiate Athletic Association, and all games are played under its rules.

The College is fortunate in possessing an excellent athletic field. Recently a quarter-mile cinder-track has been built on the field. There is also ample space in the field for football and baseball.

The Indoor Athletic Field makes it possible to continue such athletic training and games through the year.

By placing the gymnasium work and the training of all teams under the care of a thoroughly-trained specialist, who is a regular member of the college faculty, physical training has been developed to a high degree of efficiency, under the best possible conditions.

General supervision of all athletic interest of the College is now vested in a committee, consisting of the Dean of the College, the Director of Athletics, a member of the Board of Trustees, and the President and Secretary of The Student Athletic Association. The Student Athletic Association includes all the students in its membership.

This committee formulates all rules, appoints managers for the various teams, and is responsible for the athletic policy of the College. All contracts for games are made by authority of the committee, witnessed by the signature of the Dean.

RIPON COLLEGE GLEE CLUB.

The Ripon College Glee Club is in charge of Professor Elizabeth Battle Bintliff, Director of the School of Music. This club has a two weeks' concert tour each year about the time of the Easter recess.

The College Band furnishes music for athletic contests and other events, such as the "campus sings," etc. Its membership is about twenty. The band affords a means of training and of pleasant recreation for those who play band instruments.

THE DINING ASSOCIATION.

This is a co-operative association of students, for the purpose of furnishing board of good quality at low cost. The association occupies the beautiful Alumni Commons in West Building—quarters well equipped in every particular for the use of the association. The college authorities audit the books, and give general supervision to its affairs, but the details of its management are in the hands of the Students' Co-operative Dining Association.

THE LEAGUE.

This is an organization of the young women who live outside of Bartlett Cottage. Like the organization within Bartlett Cottage, it is intended for unifying the varied yet common interests of its members. A rest-room on the third floor of Ingram Hall has been furnished for them, where it is possible to hold meetings, or to spend a study hour between classes.

General Information

STUDENT EXPENSES.

The charge to the student is but a small part of the cost to the College. The balance of the cost is met by the income of the endowment fund, and by gifts from trustees and other friends of the College.

Tuition, per semester.....	\$10.00
Incidental Fee, per semester.....	22.50
Laboratory Fees, per semester—	
Anatomy, Advanced Botany, Histology.....	3.00
Archaeology	1.50
Bacteriology and Embryology.....	7.50
Chemistry, four-hour course.....	6.00
Breakage Deposit in Chemistry.....	3.00
Physics Laboratory, per unit hour.....	1.50
Physiology	1.50

ROOM RENT.

Smith Hall, Dormitory for men, with steam heat, hot and cold water, furnished rooms, two men in each room.	
Rooms number 102, 103, 105, 106, 201, 203, 205, 300, 301, 303, 305, per semester.....	\$20.00
Rooms number 101, 107, 202, 206, 207, 302, 306, 307, per semester.....	22.50
Rooms number 100, 108, 200, 208, 308, per semester	25.00
West College, Dormitory for men, with steam heat, hot and cold water, furnished rooms, two men in each room, per semester	20.00
Dawes Cottage, Dormitory for men, with steam heat, hot and cold water, furnished rooms, two men in each room, per semester	15.00
Bartlett Cottage, Dormitory for women, with steam heat, hot and cold water, furnished rooms, electric lights in each room, per semester.....	24.00

Dormitory rooms are furnished with all necessary heavy furnishings. Students will bring their own bedding, pillows, rug for the floor, and such ornaments as they desire for their rooms. All buildings are heated with steam, furnished with hot and cold water, gas and electricity. Price of room rent in Smith Hall does not include cost of light in the rooms.

A payment of at least five dollars on the incidental fee is required of all students at the time of registration. The balance of the term bills must be paid or payment satisfactorily arranged within two weeks after the opening of the semester.

The five dollars paid on the incidental fee will not be refunded under any circumstances. If a student leaves college for good reasons before the middle of a semester, one half his college bills will be refunded. No refund will be made to a student who remains in attendance more than half a semester.

Room rent and laboratory fees cannot be refunded to students who leave dormitories or laboratory classes during the semester.

All indebtedness to the College must be paid or satisfactorily arranged before a diploma or certificate of standings will be given.

The total cost for the student varies. The minimum expense will be within the reach of students of limited resources, while others may easily make provision for themselves in accordance with their means.

BOARD.

Board is furnished at the College Commons in the West Building. During the present year it has cost \$3.25 a week.

There are other boarding clubs and private houses that will furnish board to students at reasonable prices.

STUDENT AID.

A standing committee of the Y. M. C. A. acts as an employment bureau, and is always ready to assist students desiring employment. Faithful, worthy students, who are willing to work, need not abandon their course of study for lack of money. Many of the most successful graduates of the College have helped themselves in this way.

There are a few scholarships to be granted to worthy students.

SPECIAL FUNDS.

The College has available several funds for use as indicated below. Anyone desiring to be a candidate for the benefits of any of these funds should write to the Registrar for blanks to make application therefor. These applications will be considered by the faculty committee on scholarships, and the benefits will be distributed where they will appear to accomplish the greatest good.

Rufus Dodge Fund. The late Rufus Dodge, of Beaver Dam, left the College a legacy of \$9,000 as a permanent fund to aid young women of limited means in getting an education. The interest of this fund is available each year for distribution among such students for this purpose, according to their need.

Philo Sherman Bennett Scholarship Loan Fund. Mr. Philo S. Bennett, of New Haven, Connecticut, left \$10,000 in his will to Wm. J. Bryan, as trustee, to divide among several colleges, in his discretion, as a fund to help worthy young men. \$500 of this fund was given in June, 1905, to Ripon College, the conditions being that the same be invested as a perpetual fund, the income only to be loaned to worthy young men in need, who shall be honor bound to return the loan; and when so repaid, it shall be re-loaned in the same manner.

The principal fund is known as the Philo Sherman Bennett Fund. The income from this fund, the amount which is available for student use, is called the William Jennings Bryan, Trustee, Fund.

Sumner T. Bartlett Scholarship Fund. The sum of \$1,000 was given by Mrs. Lucy Bartlett, of Oshkosh, Wisconsin, for a permanent scholarship. The condition of the scholarship is that one student at a time, forever, shall be admitted to Ripon College free of tuition, such student to be designated by the college faculty, and to be one studying for the gospel ministry or for special missionary work.

Rev. E. W. Cook Scholarship Fund. The sum of \$500 was given by the Rev. E. W. Cook, of Ripon, for the purchase of a scholarship. Free tuition is to be granted to one student at a time from the income of this fund, in perpetuity.

O. W. Van Vechtin Student Loan Fund. This was the gift of O. W. Van Vechtin, who presented to the President \$100 as a loan fund, to be under the control of the President, and to be loaned to worthy students, and to draw no interest while the

borrowers are in college, but from date of leaving college to draw interest at the legal rate. The interest accruing may be added to the fund or given to students, at the President's discretion.

David Whitcomb Scholarship Fund. \$1,000 was given by David Whitcomb, of Worcester, Massachusetts, for the purchase of a permanent scholarship, the income of which fund is to be used annually to aid needy and worthy students. By resolution of the Board of Trustees, June 20, 1885, the income is appropriated to payment of necessary term bills of young men who shall be nominated by the faculty for such credit, the sons of missionaries and ministers to be preferred, and the amount of appropriation to each pupil to be determined by the faculty.

Alumni Association, 1868, M. W. Pinkerton Memorial Fund. This fund was collected by the Alumni Association as a memorial to M. W. Pinkerton, of the class of 1868. Mr. Pinkerton gave his life to the cause of Missions in connection with the work of the American Board in Africa. Up to this time, the fund has been invested for the Association by the College Treasurer, who has had no responsibility concerning it, except that of collecting the interest, and paying it to the Treasurer of the Association.

At the annual meeting of the Association in June, 1910, by a formal vote, the fund was turned over to the College, to be used according to the general intent of the givers, but without further responsibility to the Association.

Class of 1898 Harry D. Clark Memorial Fund. This is a fund credited to the class of 1898, as a memorial to their deceased classmate Harry D. Clark. The interest is to be used for the purchase of books for the library.

Class of 1901 Owen C. Rowlands Memorial Art Fund. The class of 1901 has provided a special fund, the interest of which is to be used for art decorations. It is a memorial to Owen C. Rowlands, a former member of the class, now deceased.

.COMMITTEE ON RECOMMENDATIONS.

The committee on recommendations renders assistance to graduates seeking employment, and to employers. No charge is made for this service, and the committee makes special effort to find the position for which the applicant is prepared. School boards and others employing college graduates can depend upon the faithfulness of the recommendations given.

The call for college graduates as teachers is increasing each year. All graduates and friends of the College are asked to co-operate with this committee by notifying it of vacancies.

The School of Music

FACULTY.

SILAS EVANS, D. D., LL. D.
President.

ELIZABETH BATTLE BINTLIFF, A. M.
Professor of Music and Director of the School.

ESTELLA HALL READE,
Instructor in Vocal Music.
Teacher of Public School Music Methods.

CORA LAVERNE HOPPOUGH,
Teacher of Piano, Theory, Musical History and Appreciation.

LOUISE STANTON THOMAS,
Teacher of Violin and Mandolin.

FLORINE MAE WEIMER,
Teacher of Pipe Organ and Piano.

The School of Music offers extended courses in the practical and theoretical study of music, designing to fit students for the professional musical life. The special purpose of instruction is to produce musicians who shall combine sound intellectual training with symmetrical development of the musical faculties. To this end all its work is planned. The regular courses are for those who wish to complete work leading to graduation; but those who wish to pursue only partial courses are also admitted. Preparatory courses have been arranged for piano, violin, and voice, so that the student who is only a beginner may find opportunity for study. The emphasis will be placed on thoroughness of work, whether in the elementary or in the advanced grade.

COURSES OF STUDY.

The following outlines of courses of study in the several departments of the School of Music may be varied to meet the needs of individual students.

PIANOFORTE.

Preparatory Course.

Studies in position and touch. Elementary technic. Major and minor scales in slow practice. Etudes by Burgmüller, Brünner, Duvernoy, Heller, Lecoupey, Loeschhorn, Schytte. Sonatinas by Clementi, Kuhlau, Reinecke, and others. Pieces to suit the grade.

First Year.

Mason Technic, major and minor scales and arpeggios. Etudes by Loeschhorn, Czerny, Schytte, Heller, Bach, Little Preludes and Fugues; Sonatas by Haydn, Mozart. Modern pieces. Memorizing.

Second Year.

Mason Technic. Etudes by Cramer, Turner, Heller. Bach Inventions. Sonatas by Mozart, Beethoven, Weber. Songs without Words, Mendelssohn. Pieces by Schumann, Chopin, Schubert, Raff, Grieg, Godard, Chaminade. Memorizing.

Third Year.

Scales in double thirds and sixths. Kullak's Preparatory Octave School. Etudes by Moscheles. English Suites, Bach; Sonatas by Schubert, Weber, Beethoven; Fantasias, Impromptus, etc., by Raff, Mendelssohn, Schubert, Chopin, Schumann; Concertos by Mozart and Mendelssohn. Concert pieces by Rubinstein, Grieg, Moszkowski, MacDowell, Godard, Schytte, Schuett, Sinding. Memorizing.

Fourth Year.

Kullak's Octave School. Clementi's Gradus ad Parnassum. Tausig's Daily Studies. Etudes by Chopin, Henselt, etc. Preludes and Fugues, Bach. Sonatas and Concertos by Beethoven, Chopin, Grieg, MacDowell, Saint-Saëns, etc. Concert pieces by Liszt, Chopin, Schumann, Rachmaninoff, Alkan, Arensky, and other modern composers. Memorizing.

ORGAN.**First Year.**

Rink and Dunham, Organ Schools.

Buck Pedal Phrasing Studies. Bach, Little Preludes and Fugues. Trios by Rheinberger. Easy pieces by Guilmant, Merkel, Batiste.

Second Year.

Rink and Whiting, Preludes and Postludes. Bach, Preludes and Fugues. Sonatas by Guilmant, Rheinberger, etc. Mendelssohn, Preludes and Fugues. Modern pieces.

Third Year.

Bach Chorales, Preludes and Fugues. Sonatas by Guilmant, Rheinberger, Mendelssohn. Modern pieces.

Fourth Year.

Bach Trios, Preludes and Fugues. Sonatas by Mendelssohn, Rheinberger, etc. Concert pieces by classic and modern composers. Practical work in accompanying church services and oratorios.

VIOLIN.**First Year.**

Method or School selected according to age and talent of student. Studies by Hofmann, Wohlfahrt, Hermann. Easy Pieces and Duets by Pleyel, Papini, Dello, Lehman, etc. Particular attention given to correct position, intonation, tone, and bowing.

Second Year.

Continuation of First Year Method. Scale Studies by Schradieck and Blumenstengel. Etudes by Kayser, Dont and Mazas. Simple sonatas. Solos by Leonard, Dancla, Böhm, Demuth, Sitt, Elgar.

Third Year.

Schradieck's School of Technic. Etudes by Kreutzer and Fiorillo. Sonatas by Mozart. Solos by Alard, Drdla, De Beriot, Wieniawski, Danbe.

Fourth Year.

Caprices of Rode. Concertos by Viotti, Rode, De Beriot, Spohr. Solos by Sarasate, Bruch, Dvorák, Vieuxtemps, and modern composers.

VOICE.

The aim of this department is:

I. The establishment of a pure tone in which there shall be resonance, volume, flexibility, and expression. This pure tone is to be acquired by means of perfect breath control, open throat and equalization of registers.

II. A perfect blending of tone and word, which results in the clear-cut enunciation desired by performer and listener.

III. The art of phrasing; versatility in style.

IV. Interpretation of songs, sacred and secular, and arias from oratorios and operas.

First Year.

Tone-Placing, Blending of Registers.—Dr. Edward S. Kimball's Exercises; Henneman's 101 Exercises; Sieber Op. 92-96.

Flexibility.—Lutgen Exercises in Velocity; Sieber, Op. 42-43; Marzo's Preparatory Course.

Vowel and Consonant Work.—Vaccai Italian Exercises; Sieber, 92-96; "Vowel Songs."

Phrasing.—Concone, Op. 9; Easy songs for application of principles learned.

Second Year.

Marzo, Book I.; Sieber, Op. 45; Marchesi Italian Exercises; Sieber, Op. 30-35; Concone, Op. 10. Songs, sacred and secular, of the older Italian and German composers and of the best modern composers.

Third Year.

Marzo, Art of Vocalization, Books II., III.; Sieber, Op. 30-35; Concone, Op. 12; Study of the classics and arias from oratorios.

Fourth Year.

Bordogni, II., III.; Aprile Exercises. Concert songs from classic and modern composers. Arias from the operas of German, Italian and French Schools.

THEORY AND HISTORY OF MUSIC.

The aim of the courses in these branches of music education is to give the student an intelligent conception of music as a science, aiding him to become a musician capable of understanding and interpreting a wide range of music, and to lay a broad foundation for later studies which he may undertake in the field of composition. This work will be given in classes only. The outline of the course is as follows:

Elementary Theory.

A. Sight-reading; ear-training; elementary Harmony, including the study of intervals, notation and terminology.

Choral.

B. Advanced Sight-reading preparatory to and including the performance of the standard cantatas and oratorios.
Through the year. One hour.

Musical Appreciation.

C. This course will include the study of the principles of musical form, the development of music in its various branches, the stories of the standard oratorios and operas, and some analytical study of the larger instrumental compositions for the piano, violin and orchestra, such as the sonata, overture and symphony. There will be lectures and illustrations. The purpose of the course is to awaken the musical taste, and develop the faculty of listening and hearing intelligently. This course is supplemented by later courses in Musical Form and History.
Through the year. One hour.

Theory.

D. Harmony, first year. Ear-training.
Through the year. Four hours.

Theory.

E. Harmony, second year. Analysis of musical form.
Through the year. Four hours.

Theory and History.

F. Counterpoint. Musical History.
Prerequisite: Courses A and D.
Through the year. Four hours.

PUBLIC SCHOOL MUSIC.

This course provides instruction for those students who wish to become teachers or supervisors of music in the public schools. It may be completed in two years. The outline follows:

In order to enter upon this course a student should have ability to play at sight the average school songs, and have sufficient knowledge of voice culture to use the voice properly.

First Year.

Course A.—Rudiments of Music, Terminology, Notation and Sight-reading.

Course B.—Advanced sight-reading choral class, including the study of standard cantatas and oratorios.

Course D.—Harmony, first year. Ear-training.

One-half Course F.—Musical History. Voice culture.

Second Year.

Methods of Teaching. Practice Teaching.

Course E.—Harmony, second year. Analysis of Musical Form.

Course C.—Musical Appreciation. Pedagogy. Voice Culture or Piano.

METHODS OF TEACHING.

New Normal Course and Modern Music Series.

The developing purpose of School Music is the correlation of music with other studies in the school curriculum. Care of the child voice. Correct position of the body. Breathing exercises. Voice placing and development. Relation between the speaking and singing voice. Tonal quality. Monotones and how to help them. General directions for daily use. Rhythm and its study. Beating time. Use of the baton, pendulum and metronome. Tone thinking. Visualizing. How to see with the ear. Individual work. Psychology of Sight-reading. Care of the voice as related to part-singing. Rules for selection of voices for part-singing. Grade outlines with songs for Primary. Intermediate and High Schools. Difficulties of the Supervisor in the High School. Relation of Supervisor to the Superintendent and teachers. Music and its power of discipline. Professional reading.

Observation work in the Schools, Choirs and Choral Club of the city of Ripon. Practice teaching in the classes.

Students in this department must have met the college entrance requirements in English before obtaining the certificate.

REQUIREMENTS FOR GRADUATION.

Diploma Course.

Candidates for graduation must complete academic work equivalent to a high school course and including the following subjects:

History 2 units, Science 1 unit, Algebra 1 unit, German 2 units, French 1 unit, English 3 units. In addition to these subjects, English 1 is required.

A certificate of entrance credits should be sent in advance, or presented at time of entrance.

Candidates for graduation must give a public recital, during the last year, of each course which they complete.

Degree of Bachelor of Music.

The Board of Trustees of Ripon College now confer the degree of Bachelor of Music upon students who meet the following conditions.

The requirements for entrance are the same as for College entrance. The practical preparatory musical work must be completed to the work of the first year as outlined in the Catalogue. Two courses in practical music must be pursued, one of which must be the piano. The other course may be either organ, violin, or voice, as elected. The student will be required to do three years' work in the Theory and History of Music, and to carry four hours' work in some College subject each semester for the four years it takes for graduation. The Freshman English is required. Beyond that the student may elect his literary work.

DAY PUPILS.

To meet the demands for musical instruction on the part of the residents of Ripon and vicinity, who have no time or desire to take any of the regular courses, or to take studies in the College, the following arrangements may be made: Pupils will be received from their homes, who shall simply report to the teacher for instruction at appointed hours, and have no further connection with the College. Tuition will be the same

as for the other students of the School of Music, with the exception of the incidental fee, from which they shall be exempt.

Musical activities are planned which will be of interest and profit. The School of Music aims to be a center of the musical life in Ripon. Everything of real value pertaining to the subject of musical education and advancement will be considered and encouraged by the Director.

TUITION AND EXPENSES.

In the matter of expenses, a School of Music in a small city like Ripon has great advantages to offer over those in larger cities. The expenses of living are less, for both teacher and pupil. The best instruction can be given, at prices which could not be afforded in a larger place. The cost of board and room is very reasonable, as compared with prices in many places.

Tuition, per semester, payable in advance.

Two private lessons per week, thirty minutes each:

Piano	\$40.00
Pipe Organ	45.00
Voice	40.00
Violin or Mandolin.....	20.00

One private lesson per week, forty-five minutes:

Violin or Mandolin.....	\$15.00
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Classes in Theory, Musical Appreciation and History, Choral work.

Course A is open to all students, free of charge.

Course B. This class is open to students of the College, School of Music, and also to citizens of Ripon, who enjoy the study of the Standard Cantatas, Masses or Oratorios.

Course D.....	\$12.00
Course E.....	12.00
Course F.....	12.00
Methods of Teaching Public School Music, in class	10.00

Use of Piano for Practice:

One hour a day, per semester.....	4.50
Two hours a day, per semester.....	7.50
Additional hours, each, per semester.....	1.50
Use of the Church organ, for practice, per hour25

A student of the School of Music may take college subjects at the following rate of tuition.

One course will be eight dollars; each additional course at the rate of two dollars for each semester hour of work.

A payment of five dollars on the student's bill is required at the time of registration. This amount will not be refunded.

A fee of \$1.00 for Artists' recitals is charged each music student. This fee covers the price of tickets to all recitals and concerts of the School of Music, except the Oratorio Concerts.

The orchestra of the School of Music will hold regular rehearsals every week. Membership in this orchestra is open to students of the School of Music and College, or citizens of Ripon. This is a fine opportunity for those who play orchestral instruments.

Rooms may be rented in the dormitories for from \$18.00 to \$24.00 per semester. Board can be obtained at the Commons for \$3.25 per week. Other boarding places can be found, whose prices are reasonable. All bills for tuition must be paid at the beginning of the semester, or special arrangements made with the Director.

This must be done, and the name registered, before lessons can be assigned. No deduction will be made for absence from lessons except in cases of illness of two weeks or more, when the loss will be shared equally by the School of Music and the student, on the written order of the Director. All non-resident students of the School of Music are subject to the regulations of the College.

MISCELLANEOUS ITEMS.

No prices will be made by the lesson or for any time less than a half semester.

Pupils from out of town may arrange for an hour (private) lesson once a week instead of half hours twice a week.

Pianos for practice can be rented at the School of Music or in the town.

No student of the School of Music will be allowed to take a musical part in any public exercises without permission from his teacher.

Semesters of the School of Music commence with those of the College, and its holidays are the same as those observed by the College.

All persons desiring musical instruction are encouraged in every possible way; graduates and others who have been students of Ripon School of Music will be recommended to fill suitable positions whenever it can be conscientiously done.

Degrees Conferred, June, 1912

HONORARY DOCTOR OF DIVINITY.

John C. Jones.....Chicago, Ill.

BACHELOR OF ARTS IN COURSE.

Charles Bullen Atwood, Business.....Stevensville, Mont.
 Arthur Carroll Barry, Teacher.....Stanley, N. Dak.
 Theodore Bast, Graduate Student.....University of Chicago
 Horace Abram Bumby, Business.....Chicago, Ill.
 Maude Elizabeth Cragg, Teacher.....Madison, N. Y.
 Claude Henry Cragoe, Teacher.....Beaver Dam
 Mildred Irene Dockery.....Fond du Lac
 Genevieve Marian Dopp, Teacher.....Plymouth
 Christine Draeger, Teacher.....Indianapolis, Ind.
 George Lauren Duffie, Business.....Kansas City, Mo.
 Sigrid Esbensen, Teacher.....Winneconne
 William Lee Finnegan, Teacher.....De Kalb, Ill.
 Frances Mary Foote, Teacher.....Elroy
 Edward Daniel Fruth, Teacher.....Tomah
 Llewellyn Jones, Graduate Student.....University of Wisconsin
 Corinna Kirchgeorg, Teacher.....Milwaukee
 Ellis Llewellyn Krause, Graduate Student...University of Wisconsin
 Anna Larkin, Teacher.....Rosendale
 Ethel Emma Lyon, Teacher.....Wausaukee
 Eileen Agnes Miller.....Ripon
 James Clarence Mutch, Teacher.....Mondovi
 Glenn Raymond Otis, Teacher.....Neenah
 Humphrey William Owen, Graduate Student..University of Wisconsin
 Perry Sheldon Pray, Teacher.....Gilbert, Minn.
 Albert Jacob Stelter, Teacher.....Waupun
 Carl Wesle Utgard, Business.....Amherst
 Robert Vivian Young, Teacher.....South Milwaukee

List of Students

SENIORS.

Bert Llewellyn Choate.....	Fond du Lac
Carl Susan Cragoe.....	Oakfield
William Henry Davies.....	Cambria
Rowland Evans	Cambria
Charles Casey Finnegan.....	New Richmond
Lowell Pierce Goodrich.....	Ripon
Louis Encking Graf.....	Ripon
Eleanor May Grant.....	Watersmeet, Mich.
Carl Fred Hanske.....	Kiel
Fred Herrmann.....	Green Bay
Mae Augusta Holiday.....	Oshkosh
Jane Blodwen Jones.....	Milwaukee
Angeline Persis Jones.....	Milwaukee
Louis Kornder	Rockfield
Belle LeClaire	Oconto
Charlotta Beatrix Liebman.....	Fort Atkinson
William Hinslea Lyon.....	Brandon
Elizabeth Pelagia Meshynski.....	Ripon
Thomas Smith Murrish.....	Cambridge, Ill.
Alma Helen Nohr.....	Ripon
Gordon Francis O'Connor.....	Fond du Lac
Edgar Phillip Rosenthal.....	Plymouth
Clarence James Rottmann.....	Ripon
Jeanne Roy	Wausau
Adele Fredericka Schaar.....	Fond du Lac
Robert Albert Shafer.....	Rosendale
Helen Annette Smith.....	Braidwood, Ill.
Ray Albert Sorenson.....	Rhineland
Alfred De Lloyd Sutherland.....	Fond du Lac
Harry Albert Swartz.....	Oshkosh
William Halvor Taylor.....	Two Rivers
Mary Elvira Weeks.....	Oshkosh
John E. Williams.....	Milwaukee

JUNIORS.

Ray Morse Atcherson.....	Tomahawk
Lelia Etta Barber.....	Black Earth
Arthur Earl Beauchamp.....	Jacksonville, Ill.
Henrietta Belden	Ripon
Ruth Hazel Brewer.....	Ripon
Olive Marian Burnside.....	Ripon
Helen Irmgard Chittenden.....	Ripon
Will Robert Davies.....	Cambria
Donald Wayne Densmoor.....	Markesan
Nathaniel Beach Dexter.....	Ashland
Mary Bernice Gowell.....	Norrie
Eva Ina Holiday.....	Oshkosh
Edgar Thomas Jones.....	Picketts
Irma May Knight.....	Markesan
Shirley Faye Knight.....	Markesan
Clarence Arthur Kopp.....	Eau Claire
Elwyn Busian Krause.....	Ripon
Arthur John Martin.....	Sheboygan
Fred Maynard	Sheboygan
Ruby May Morgan.....	Randolph
Ida Margaretha Pleuss.....	Brandon
Robert Elliott Preston.....	Ripon
Byron James Rock.....	Plymouth
Ruth Lillian Rottmann.....	Ripon
Frank Rueping.....	Fond du Lac
Ray Edwin Searle.....	Ripon
Edwin Jefferson Smith.....	Belgrade, Minn.
Carol Eloise Sweet.....	Fond du Lac
Lester Frank Thomas.....	Beaver Dam
Bernard Thompson	Kilbourn
Ruth Evelyn Van Kirk.....	Ripon
Albert James Walker.....	Markesan
James Roland Wedge.....	Waupun
Arthur Henry Wegel.....	Fond du Lac
Lillian Anna Zobel.....	Ripon

SOPHOMORES.

Hazel Marie Atwood.....	Trempealeau
Harold Cooke Chambers.....	Ripon
Leo Francis Crane.....	Tomahawk
Jessie DeBoth	Green Bay
Deloraine Keith Dunlap.....	Ripon

Harry Falconer	Pardeeville
Louis Burwell Farvour.....	Ripon
Charles Robert Finnegan.....	Lavalle
Milton Herman Hostman.....	Plymouth
Harold Howard.....	Fort Atkinson
Thomas Neubern Hughes.....	Rio
Ida Johnson	Phillips
Eleanor Hardy Keller.....	Fond du Lac
George John Krebs.....	Fort Atkinson
Norman Frederick Kuether.....	Merrill
Lyle Nathan Lane.....	Phillips
Avis Winnefred Linderman.....	Ironwood, Mich.
Wilfred Murray Lucas.....	Phillips
Harry John McNicholas.....	Plymouth
Julian Yerkes Malone.....	Jacksonville, Ill.
George Allan Mitchell.....	Ripon
Clyde Spencer Morgan.....	Oakfield
Bessie Murray	Ripon
Martha Jean Mutch.....	Elroy
Clare O'Donnell	Montello
Clarence Ferdinand Otto.....	Seymour
Emma Owen	Cambria
Frank Joseph Paluka.....	Princeton
William Hall Preston.....	Ripon
Marie Pulling	Marshfield
Chester Arthur Shortt.....	Oakfield
Margaret Helen Smith.....	Tomah
Litta Marie Stone.....	Ripon
Florence Blaine Williams.....	Waupun
Garvin Daniel Williams.....	Cambria
Irene Lillian Wooster.....	Ripon
William August Zinzow.....	Ripon

FRESHMEN.

Irving Emerson Abendroth.....	Cambria
Stella Anderson.....	Eau Claire
Helen Louise Barnum.....	Clintonville
Will Basteen	Tomahawk
Roy Beach.....	Fort Atkinson
Victor Carl Beck.....	Glenbeulah
Julia Bottum.....	Faulton, S. Dak.
Thomas Brickley.....	New Richmond
Ethel Lillian Bryan.....	Ripon
Mary Edith Butler.....	Montello

Ethel May Callahan.....	Ripon
Clayton James Carey.....	Randolph
Lawrence Anthony Carroll.....	Sparta
Fayette Merrill Coffeen.....	Peebles
Harold Horace Corey.....	Green Bay
Charles De Greef.....	Big Stone, S. Dak.
Bernice Dexter	Cambria
Anthony Donlin	Plymouth
Clarence Frank Du Chateau.....	Green Bay
Garrie Winell Eldridge.....	Tomahawk
Harold Collins Genter.....	Sheboygan
Forrest Willis Gillett.....	Rosendale
Lillian Marylinn Goff.....	Cambria
Lester Clyde Guetzloe.....	Kiel
Lynn Gerald Haskin.....	Pardeeville
Archibald Hargrave	Ripon
Archie Lynne Hirst.....	Hancock
Randall Edward Howe.....	Ripon
John Wallace Hughes.....	Randolph
Martha Humphrey.....	Wild Rose
Anton Iverson	Tomahawk
Elsa Johnston	Waupun
Lucile Kleiner.....	Eau Claire
Mabel Lucile Krebs.....	Ripon
Hans Christian Larsen.....	Stanley
Henry Lewis.....	Minneapolis, Minn.
Mildred Lucile Little.....	Ripon
Orlando Steen Loomis.....	Mauston
Robert Crawford McClain.....	Oakfield
Wayne Anthony Marchant.....	Rosendale
William Herman Mehn.....	Ripon
Homer Clark Melvin.....	Glenbeulah
William Eleazer Orvis.....	Oakfield
Richard William Owen.....	Bethesda, N. Wales
Minnie Ellena Peterson.....	Spalding, Mich.
Arthur Phillips	Endeavor
Fred Albert Piehl.....	Fond du Lac
Eloise Naomi Pinch.....	Rosendale
Percy George Pray.....	Fond du Lac
Doris Helen Potter.....	Neenah
Erwin Ferdinand Reichmuth.....	Ripon
Edward Roberts.....	Bethesda, N. Wales
William Edward Roberts.....	Cambria
Carl Parcher Russell.....	Fall River
Maude Schemmel	Cambria

Vernon Fred Selden.....	Lima
Marian Shaw.....	Scarsdale, N. Y.
Morrison Sims	Brandon
Harry William Stelmaker.....	Ripon
Roy John Strossenreuther.....	New London
Clyde Daniel Sullivan.....	Phillips
Sarah Jane Taylor.....	Two Rivers
Harvey Weidman	Reedsburg
Delmer David Wensink.....	Plymouth
Sydney Clarence Wilkie.....	Horicon
Marvin John Williams.....	Oshkosh

UNCLASSIFIED.

George Nickel	Berlin
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SCHOOL OF MUSIC.

Ethel Claire Addington.....	Osage, Iowa
Clara Anderson	Winneconne
Ray Morse Atcherson.....	Tomahawk
Avis Corliss Babcock.....	Ripon
Helen Louise Barnum.....	Clintonville
Edward Boese	Ripon
Julia Bottum	Faulkton, S. Dak.
Ruth Hazel Brewer.....	Ripon
Ethel Lillian Bryan.....	Ripon
Carlton Burgess	Ripon
Mary Edith Butler.....	Montello
Mabel Marguerite Cease.....	Ripon
James Clark	Ripon
Charlotte Clement	Berlin
Nellie Davis	Berlin
Pearl Davison	Ripon
Jessie De Both.....	Green Bay
Bernice Dexter	Cambria
Mrs. George Diedrich.....	Ripon
Lillian Epstein	Berlin
Nina Marie Faustman.....	Ripon
Lillian Fenelon	Ripon
Ella L. Fink.....	Green Lake
Helen Flanagan.....	Rush Lake
Forrest Willis Gillett.....	Rosendale
Lillian Goff	Cambria
Ida Gold	Berlin
Elizabeth Hensley Higbee.....	Neshkoro

Elnora Hill	Ripon
Iva Holiday	Oshkosh
Velma Howe	Ripon
Clara J. Hoyer.....	Princeton
Daphne Hurlbut	Oshkosh
Peter Jimos	Ripon
Clara Kaiser	Ripon
Mary Kaiser	Ripon
Eleanor Hardy Keller.....	Madison
William Kennedy	Ripon
Lucile Kleiner	Eau Claire
Nellie Woodward Kramer.....	Waupun
Mabel Lucile Krebs.....	Ripon
Harry Kroll	Ripon
Herbert Kunde	Ripon
Russell Lincoln	Ripon
Wilford Murray Lucas.....	Phillips
Frederick W. Lueck.....	Ripon
Audrey Mahon	Ripon
Josepha Manthey	Princeton
Ethel Miller	Ripon
Merle Miller	Ripon
Agnes M. Page.....	Ripon
Marcella Pedrick	Ripon
Minnie Ellena Peterson.....	Spalding, Mich.
Edna Pinkerton	Brandon
Louis Pomerening	Ripon
Robert Preston	Ripon
William Preston	Ripon
Marie Pulling	Marshfield
Eunice Pynch	Ripon
Robert Reed	Ripon
Edna Rieman	Ripon
Frances Marion Ring.....	Kingston
Jennie Isabelle Safford.....	Omro
Frances Luella Savage.....	Waupun
Maude Schemmel	Cambria
Marian Shaw.....	Brooklyn, N. Y.
Lulu Sherwin	Brandon
Morrison Sims	Brandon
Helen Annette Smith.....	Braidwood, Ill.
Irene Elsie Smith.....	Brandon
Margaret Helen Smith.....	Tomah
Helen Louise Sniffen.....	Spring Valley, N. Y.

Litta Marie Stone.....	Ripon
Linda Tabbert	Ripon
Evalyn H. Teske.....	Princeton
Herbert Thada	Ripon
Edna May Van Harlingen.....	Chicago, Ill.
Florine Mae Weimer.....	Coloma, Mich.
Norma Welsh	Ripon
Lillie Werth	Markesan
Rose Wilson	Ontonagon, Mich.
Irene Lillian Wooster.....	Ripon
Olga Zobel	Ripon

Summary of Attendance

	Men	Women	Total
Seniors	21	12	33
Juniors	21	15	36
Sophomores	24	14	38
Freshmen	46	20	66
Unclassified	1	..	1
	<hr/>	<hr/>	<hr/>
Total	113	61	174
	<hr/>	<hr/>	<hr/>
Music	17	66	83
	<hr/>	<hr/>	<hr/>
	130	127	257
Names counted twice.....	6	20	26
	<hr/>	<hr/>	<hr/>
Corrected Total.....	124	107	231

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Ripon College Bulletin

Catalogue
1913 - 1914

Bulletin, January, 1914

SERIES II, NUMBER 22

RIPON COLLEGE
1913-1914

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May 16th, 1908, as second-class mail matter,
under act of July 16th, 1904.*

W. J. Walker

CALENDAR-1914

JANUARY.

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JANUARY

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APRIL.

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JUNE.

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College Calendar

1914.

January	5, Christmas Vacation ends at noon.....Monday
January	14, Registration for Second Semester.....Wednesday
January	23, First Semester ends.....Friday
January	26, Second Semester begins.....Monday
March	20, Spring Vacation begins at 4:15 p. m.....Friday
March	30, Spring Vacation ends at noon.....Monday
June	7, Baccalaureate SermonSunday
June	8, Annual Meeting of the Board of Trustees...Monday
June	9, Annual Meeting of the Alumni.....Tuesday
June	10, Forty-eighth Annual Commencement...Wednesday
September 14,	15, Registration for First Semester...Monday, Tuesday
September	16, Lectures and Recitations begin.....Wednesday
November	25, Thanksgiving Recess begins at 3:15 p. m..Wednesday
November	30, Thanksgiving Recess closes at noon.....Monday
December	23, Christmas Vacation begins at 3:15 p. m..Wednesday

1915.

January	5, Christmas Vacation ends at 8:00 a. m.....Tuesday
January	29, First Semester ends.....Friday
February	1, Second Semester begins.....Monday
March	26, Spring Vacation begins at 3:15 p. m.....Friday
April	6, Spring Vacation ends at 8:00 a. m.....Tuesday
June	16, Forty-ninth Annual Commencement.....Wednesday

Board of Trustees

OFFICERS.

SILAS EVANS, President of the College, ex-officio President.

ALBERT G. FARR,* Vice-President.

SAMUEL M. PEDRICK, Secretary.

JOHN W. WRIGHT, Treasurer.

HONORARY MEMBER.

F. J. LAMB, Lawyer.....Madison

TERM EXPIRES 1914.

WILLIAM J. STARR, Lumberman and Manufacturer.....Eau Claire

SAMUEL M. PEDRICK, Lawyer.....Ripon

A. E. THOMPSON, Lawyer.....Oshkosh

FRED W. ROGERS, Real Estate and Insurance.....Milwaukee

L. H. KELLER, General Superintendent Wisconsin Congrega-
tional AssociationMadison

J. B. BARLOW, JR., President Barlow & Seelig Manufactur-
ing Co.Ripon

TERM EXPIRES 1915.

O. H. INGRAM, Lumberman and Banker.....Eau Claire

FREDERICK W. UPHAM, President of Board of Review, Cook
County, Illinois; of Upham & Agler; of Wisconsin Oak
Lumber Company; and of City Fuel Company.....Chicago, Ill.

W. H. HATTON, Lumberman and Manufacturer.....New London

ALBERT G. FARR,* of Harris, Forbes & Co., Boston, Mass.,
and of N. W. Harris & Company, Incorporated, New York,
and of the Harris Trust and Savings Bank.....Chicago, Ill.

D. D. SUTHERLAND, Lawyer.....Fond du Lac

WILLIAM R. DAWES, First Vice-President Central Trust Com-
pany of Illinois.....Chicago, Ill.

THOMAS D. HOWELL, with J. I. Case Threshing Machine
CompanyRacine

TERM EXPIRES 1916.

JOHN W. WRIGHT, President Ripon Knitting Works.....Ripon

FREDERICK SPRATT, Cashier First National Bank.....Ripon

FRANK K. SANDERS, President Washburn College..Topeka, Kans.

MRS. HARRIET H. ROBERTSON.....Milwaukee

ARTHUR E. LEONARD, Pastor First Congregational
ChurchEau Claire

JAMES L. STONE, Cashier German National Bank.....Ripon

W. B. FOSTER, President Mattice-Foster Co.....Ripon

* Died, December 22, 1913.

STANDING COMMITTEES.

EXECUTIVE COMMITTEE—Messrs. J. L. Stone, Samuel M. Pedrick, F. Spratt, J. W. Wright, W. B. Foster, and J. B. Barlow, Jr.

COMMITTEE ON INSTRUCTION—Messrs. Rogers, Farr,* Sanders, Starr, and Barlow, and Mrs. Robertson.

COMMITTEE ON GROUNDS AND BUILDINGS—Messrs. Foster, Stone, and Barlow.

AUDITING COMMITTEE—Messrs. Sutherland and Howell.

COMMITTEE ON INVESTMENTS—Messrs. Wright, Pedrick, Spratt, and Stone.

COMMITTEE ON HONORARY DEGREES—Messrs. Ingram, Leonard, Keller, and Thompson.

SPECIAL COMMITTEE ON FINANCE AND ENDOWMENT—Messrs. Ingram, Farr*, Starr, Dawes, and Upham.

The President of the College is, ex officio, member of all committees.

* Died, December 22, 1913.

Officers of Instruction

SILAS EVANS, D. D., LL. D.....309 Seward St.

President, and Professor of Biblical Literature and Philosophy of Religion.

A. B., Ripon College, 1898. A. M., Princeton University, 1900; B. D., Princeton Seminary, 1901; D. D., Carroll College, 1911; Middlebury College, 1913; LL.D., Lawrence College, 1912; Professor of Philosophy, Hastings College, 1901-3. Professor of Philosophy and Pastor of the College Church, Park College, 1903-9. Professor of Hebrew Literature, University of Wisconsin, 1909-10. Ripon College, 1910.

FRANK MORTON ERICKSON, A. M.....529 Woodside Ave.

Dean and Wilcox Professor of Classics, and of English Composition.

A. B., Wabash College, 1892. A. M., University of Chicago, 1895. Student of Archaeology, Athens, Greece, 1900. Teacher of Greek and Latin, Highland University, 1892-4. Member Graduate School, Harvard University, 1906-7. Ripon College, 1895.

MARY CORINTHIA HARWOOD, A. M.*.....121 Thorn St.

Dean of Women and Professor of French and German.

B. L., Lawrence University, 1888; A. M., Lawrence University. Student in France and Germany, 1891-3, 1901-2, 1904. Assistant Principal, Traer (Ia.) High School, 1888-90. Instructor in French and German, Grafton Hall, Fond du Lac, Wis., 1893-4. Student in France, 1907. Ripon College, 1895.

JESSE FOX TAINTOR, A. B.....616 Ransom St.

Professor of English Literature.

A. B., Ripon College, 1873. Andover Theological Seminary, 1875-8. Pastorates in Iowa, 1878-83; Rochester, Minn., 1886-1903. Graduate Student Chicago University, 1903, 1905. In Europe for study and travel, 1911-12. Ripon College, 1905.

WILLIAM HARLEY BARBER, A. M.†.....120 Thorn St.

Professor of Physics.

B. S., University of Wisconsin, 1901; A. M., University of Wisconsin, 1909. Assistant Principal Ripon High School, 1901-4; Principal Ripon High School, 1904-5. United States Department of Commerce and Labor, Bureau of Standards, Washington, D. C., 1905-6. Graduate Student, University of Chicago, summers, 1911-13. Ripon College, 1906.

ALBERT FRANKLIN GILMAN, Ph. D.....627 Lincoln St.

Professor of Chemistry.

S. B., Amherst College, 1897; A. M., Amherst College, 1901. Ph. D., University of Denver, 1913. Teacher of Science, Farmington, Me., 1897-8. Professor of Science, Dow Academy, Franconia, N. H., 1898-9. Professor of Chemistry and Physics,

* On leave of absence.

† On leave of absence, second semester 1913-14.

Maryville College (Tenn.), 1900-6. Graduate Student, Harvard University, 1903; University of Chicago, 1905-6; University of Denver, 1912-13. Ripon College, 1906.

WILLIAM JAMES MUTCH, Ph. D.....719 Watson St.
Professor of Philosophy and Education.

A. B., University of Wisconsin, 1882; B. D., Yale Divinity School, 1885. Ph. D., Yale University, 1894. Lecturer in Pedagogy, Yale Divinity School, 1900-2. Pastor of Howard Avenue Congregational Church, New Haven, Conn., 1885-1907. Ripon College, 1907.

GEORGE ADDISON TALBERT, M. S.....122 Watertown St.
Professor of Biology.

B. S., Ohio Wesleyan University, 1888; M. S., Ohio Wesleyan University, 1891. Graduate Student, Johns Hopkins University, 1888-9. Berlin University, 1898-9. University of Chicago, 1899-1900. Woods Hole Marine Laboratory, summers of 1893-4-5, and Leland Stanford Marine Laboratory, summer of 1897. Teacher of Biology, 1889-1902. Stevens Point Normal School, 1902-8. Ripon College, 1908.

ELIZABETH BATTLE BINTLIFF, A. M.....234 Elm St.
Professor of Music and Director of the School of Music.

Student, Oberlin Conservatory of Music. Organ Pupil, Fene-
lon B. Rice and Clarence Eddy. Piano Pupil, George W. Steel
and William H. Sherwood. Theory Pupil, George W. Chad-
wick and Frederic Grant Gleason. Studios in Janesville, Wis.,
and Chicago, Ill. Organist, St. Paul's Episcopal Church, Mil-
waukee, and Leavitt Street Congregational Church, Chicago,
Ill. Professor of Music and Director of Conservatory of
Music, Olivet College, 1893-1909. A. M., Olivet College, 1902.
Ripon College, 1909.

EMMA GERTRUDE SIMMONS, A. M.....Bartlett Cottage
Associate Professor of French and German.

A. B., University of Missouri, 1905. A. M., University of Wis-
consin, 1908. Teaching Fellow, University of Wisconsin, 1906-8.
Student at the University of Paris, 1908-9. Ripon College, 1909.

EDNA VAN HARLINGEN, A. B.....234 Elm St.
Instructor in Classics.

Ph. B., National Normal University, Lebanon, Ohio, 1906.
A. B., Vassar College, 1911. Latin and German, Bloomfield
Normal School, Bloomfield, Iowa, 1907. Latin and German,
Miamisburg High School, Miamisburg, Ohio, 1908. Ripon
College, 1912.

WILLIAM EVERETT JILLSON, A. M.....652 South Grove St.
Librarian and Associate Professor of German.

A. B., Brown University, 1882; A. M., Brown University, 1885.
Instructor in the English and Classical School, Providence,
R. I., 1882-8. Student in France and Germany, 1888-90. Pro-
fessor of German and French and Librarian, Doane College,
1890-1912. Student in the Library School of the University of
Wisconsin, 1911-12. Ripon College, 1912.

- WARREN BROWNELL SMITH, Ph. B.....406 W. Thorn St.
Ph. B., University of Chicago, 1902. Graduate Student, University of Chicago, 1909-12. Fellow in History, University of Chicago, 1910-12. Ripon College, 1912.
- EDWIN GRISWOLD NOURSE, A. B.....621 Ransom St.
Professor of Economics and Sociology.
A. B., Cornell University, 1906. Graduate Student, University of Chicago, 1908-9; University of Pennsylvania, 1909-10. Instructor in History and Economics, High School, Ogden, Utah, 1906-8. Instructor in Finance, Wharton School of Commerce and Finance, University of Pennsylvania, 1909-10. Professor of Economics and Sociology, University of South Dakota, 1910-12. Ripon College, 1913.
- WILLIAM C. KRATHWOHL, Ph. D.....513 Woodside Ave.
Professor of Mathematics.
A. B., Harvard University, 1907. A. M., Columbia University, 1910. Ph. D., University of Chicago, 1913. Instructor, Columbia University, 1907-11. Instructor, Washington University, 1911-12. Ripon College, 1913.
- KENT CRAIG LAMBERT, A. B.....110 E. Thorn St.
Director of Athletics.
A. B., Wabash College, 1913. Ripon College, 1913.
- GRACE GERTRUDE GOODRICH, Ph. D.....Eureka St.
Associate Professor of Classics.
A. B., Ripon College, 1906; A. M., 1907; Ph. D., University of Wisconsin, 1913. Teacher of Latin and English, Wabash, Minn., 1907-9. Student, American School of Classical Study at Rome, 1909-10. Graduate Student, University of Wisconsin, 1910-11. Graduate Student, Bryn Mawr College, 1911-12. Assistant in Latin, University of Wisconsin, 1912-13. Ripon College, 1913.
-(To be appointed.)
Assistant Professor of English Composition and Public Speaking.
- CARL SUSAN CRAGOE, A. B.....Smith Hall
Assistant in Physics.
A. B., Ripon College, 1913. Ripon College, 1913.
- ESTELLA HALL READE.....430 Congress St.
Instructor in Vocal Music.
Pupil of William H. Stockbridge, Portland, Me.; of Madame Perkins, Baltimore, Md.; of Dr. Edward S. Kimball, Washington, D. C.; of Benjamin F. Wood, Boston; of Mary Kimball, Washington, D. C.; and of Herman Kotschmar, Portland, Me. Contralto Soloist in Choirs in Lewiston, Portland, Baltimore, Washington, Joliet, Ill., and Olivet, Mich. Head of Vocal Department and Public School Music Methods, Conservatory of Music, Olivet College, 1897-1909. Ripon School of Music, 1909.

- CORA LAVERNE HOPPOUGH.....234 Elm St.
 Teacher of Piano, Theory, Musical History and Appreciation.
 Graduate, Conservatory of Music, Olivet College, 1900. Teacher
 of Piano, Greenville, Mich., 1901-2. Student of Piano with Emil
 Liebling, Chicago, 1902-3. Teacher of Piano and Theory, Con-
 servatory of Music, Olivet College, 1903-9. Student of Piano
 and Advanced Theory, Teacher of Ear-training, Conservatory
 of Music, Oberlin, 1909-10. Ripon School of Music, 1910.
- LOUISE STANTON THOMAS.....120 E. Thorn St.
 Teacher of Violin and Mandolin.
 Student of Violin, with Mrs. B. F. Anderson; of Violin and
 Theory, with Theodore Meier, 1907-9; of Violin, with W. L.
 Jaffé, Milwaukee, 1909-10. Graduate Wisconsin College of
 Music, Milwaukee, from Violin course, 1911. Graduate Stu-
 dent of W. L. Jaffé, 1911-12. School of Music, Ripon, 1910.
- CORDELIA E. KENT, B. Mus.....309 Seward St.
 Teacher of Piano and Pipe Organ.
 B. Mus., Hiram College, 1902; Instructor of Piano, Cumberland
 University, Lebanon, Tenn., 1903-5. Teacher in Private School,
 Atlanta, Ga., 1905-10. Instructor of Piano, Hastings College,
 1910-12. Student of Piano and Organ with James Rogers in
 Cleveland, 1912-13. Ripon College, 1913.

STUDENT ASSISTANTS.

- BIOLOGY—Arthur John Martin.
 CHEMISTRY—Robert Elliott Preston.
 LIBRARY—William Everett Jillson, Jr.
 Marian Maynard.
 Mary Bernice Gowell.

COMMITTEES OF THE FACULTY.

- CHAPEL—President Evans, and Professor Mutch.
 DORMITORIES—Professors Gilman, Barber, Simmons, and Nourse.
 PUBLICATION—Professors Erickson, Taintor, and Gilman.
 SOCIAL LIFE—Professors Smith, Talbert, and Simmons; Mrs. Reade,
 and Miss Van Harlingen.
 ALUMNI AND COMMENCEMENT—Professors Taintor, Bintliff,
 and Krathwohl.
 RECOMMENDATIONS—Professors Mutch, Gilman, and Smith.
 FORENSICS—Professors Taintor, Erickson, Jillson, and Nourse.
 LIBRARY—Professors Talbert, Jillson, and Miss Van Harlingen.
 REGISTRATION—Professors Barber, Mutch, and Taintor.
 JOINT COMMITTEE ON ATHLETICS—For the Faculty: Dean
 Erickson, Kent C. Lambert, Director of Athletics; for the Trus-
 tees: J. W. Wright; for the Students: B. J. Thompson and C. R.
 Finnegan.
 JOINT COMMITTEE ON COMMONS—For the Faculty: Professors
 Barber and Smith; for the Trustees: S. M. Pedrick; for the Stu-
 dents: Fred Maynard.

OFFICERS OF ADMINISTRATION.

SILAS EVANS.....	President
FRANK MORTON ERICKSON.....	Dean
MARY CORINTHIA HARWOOD.....	Dean of Women
WILLIAM HARLEY BARBER.....	Registrar
WARREN BROWNELL SMITH.....	Secretary of the Faculty
WILLIAM EVERETT JILLSON.....	Librarian
EMMA GERTRUDE SIMMONS.....	Head of Bartlett Cottage
PEARL DAVISON.....	Cashier
DAPHNE HURLBUTT.....	Stenographer

HERMAN GATZKE.....	Superintendent of Grounds and Buildings
MRS. JENNIE M. SMITH.....	Matron of College Commons

DEPARTMENT FELLOWS.

IN BIOLOGY—	Arthur John Martin.
IN CHEMISTRY—	Elwyn Busian Krause.
IN ENGLISH—	First Semester: Shirley Faye Knight. Second Semester: Ida Margaretha Pleuss.
IN HISTORY—	Mary Bernice Gowell.
IN PHYSICS—	Lester Frank Thomas.

Ripon College

The institution out of which the present Ripon College grew, was incorporated January 29, 1851. Brockway College, as the first foundation was called in honor of one of its benefactors, was a development from the "Lyceum of Ripon," which was founded November 23, 1850. The original incorporators of Brockway College were David P. Mapes, Ezra L. Northrup, Alvin E. Vovay, Warren Chase, John S. Horner, Jehdeiah Bowen, Almon Osborn, Asa Kinney, Edwin Lockwood, Alexander B. Beardsley, William S. Brockway, Edward L. Runals, and William Starr.

From the time of its opening until 1855, the school was under the management of Rev. J. W. Walcott. No college classes were formed, and no college work was attempted, until the autumn of 1863. On February 21, 1857, Mr. Walcott deeded the college property to the Board of Trustees, they securing him for his claim of six thousand nine hundred and seventy-seven dollars by a mortgage on the entire realty. The deed recognized the right of the Winnebago Convention to nominate candidates to fill vacancies in the board. The campus conveyed in this exchange embraced about nine acres, which has since been considerably increased. The dormitory building, contemplated in 1855, was not ready for occupancy until the latter part of the autumn of 1858. The years from 1858 to 1862 witnessed serious struggles in the life of the young College. For a time during this period the buildings and grounds of the College were used for the purposes of the war, and many of its faculty and students saw actual service in the Union armies.

On April 23, 1863, the Rev. William E. Merriman, a graduate of Williams College, and of Union Theological Seminary, a popular preacher and an accomplished scholar, then pastor of the Presbyterian Church at Green Bay, was elected to the presidency of the College. The appointment of Mr. Merriman was an epoch in the history of the institution. The obstacles which confronted him were extraordinary, but he exhibited at once a power to overcome them, no less extraordinary. His Christian consecration and his enthusiasm were complete, not permitting him to miss any opportunity to do effective work for the College, or for intellectual and spiritual uplift among students and people. Although the institution had at this time no endowment, only one professor besides the President, and

hardly half a dozen students of college grade, yet it took its place of moral and intellectual leadership. Under the direction of the new President, the College grew rapidly and substantially, the number of students more than doubled, new buildings were added, and the College admitted to membership in the Society for the Promotion of Collegiate and Theological Education in the West. This last accomplishment was of far-reaching consequence, freeing the institution from obligations to the Winnebago Convention, and placing it on a much firmer financial basis. In addition to this, a large sum was added to the endowment; but, above all, the College, through this action, became recognized in the fraternity of colleges. In 1874, Dr. Merriman was given a leave of absence on account of ill health, and his active work as head of the College practically ended with this year. In this administration, remarkable in every sense, much was accomplished for the College in a material way; but more important than this, was the fact that under the guidance of this strong and simple man, the spirit of the institution was established.

The administration of Edward Huntington Merrell began in 1876, and continued until 1891. Doctor Merrell's connection with the College continued until his death, in 1909. From 1891 until 1906 he was the Professor of Philosophy. In 1906 he was made Professor Emeritus, on the Carnegie Foundation. Rufus Cushman Flagg, D. D., was President from 1892 to 1900. His successor in 1901 was Richard Cecil Hughes, D. D., who served the College until 1909. In September, 1910, Silas Evans, a graduate of the College in the class of 1898, was elected President.

From the beginning, the College has been under the control of a Board of Trustees, who have uniformly conducted its affairs wisely, economically and with foresight. From 1855 to 1864 the Board was served by four different secretaries: Mr. J. W. Walcott, Mr. Hiram Freeman, Mr. C. C. Bayley, and Mr. J. C. Catlin. In 1864 Storrs Hall, M. D., was made Secretary, and served faithfully and efficiently until 1899. At that date Mr. Samuel M. Pedrick was elected to the office, which he still holds.

The Board has been equally fortunate in its Treasurers. Mr. Jehdeiah Bowen was twice Treasurer, between the years 1851 and 1861, and again from 1865 to 1882. The Treasurer from 1861 to 1865 was Mr. Charles F. Hammond. Mr. A. P. Harwood was elected in 1882, and served until 1883. Mr. J. A. Chamberlain served from 1883 to 1884. Mr. Harwood was again elected in 1884, and served until 1886. From 1876 to 1886 Mr.

George C. Duffie, as Assistant Treasurer, had the care of the books, and the responsibilities of Treasurer fell largely upon him. In 1886 Mr. Joseph Scribner was made Treasurer, and held the office until 1899, when Mr. S. M. Pedrick was elected. Mr. Pedrick was followed in 1905 by Mr. George L. Field, President of the First National Bank of Ripon. From 1905 to 1907 Mr. Frederick Spratt, as Assistant Treasurer, gave constant attention to the accounts and to the financial affairs of the College. Mr. Albert G. Farr, Vice-President of The Harris Trust and Savings Bank, Chicago, was elected Treasurer in 1907, and continued in that office until June, 1910, when he was succeeded by Mr. William R. Dawes, of Chicago, Cashier of The Central Trust Company of Illinois. Since June, 1912, the Treasurer has been Mr. John W. Wright, President of the Ripon Knitting Works.

Buildings and Equipment

THE COLLEGE BUILDINGS.

Ingram Hall, completed in 1900, and named after one of its principal donors, Mr. O. H. Ingram, of Eau Claire, is the main lecture hall of the College, and contains the College Library. On the first floor are situated the offices, the lecture-rooms, and laboratories of the departments of Biology and of Physics, and also the stack-room of the Library. The second floor is occupied by lecture-rooms, and by the reading-room and office of the library. On the third floor are the Chemical laboratories and the lecture-rooms of the department of Philosophy and Education.

East College, the first building erected on the college campus, has been entirely remodeled. It now contains the offices of the College, and the studios and practice-rooms of the School of Music. The Young Men's and Young Women's Christian Associations also have rooms in this building.

Middle College, now called Smith Hall, in memory of the late Elisha D. Smith, of Menasha, was opened as a dormitory in 1903. It is heated by steam, lighted by gas and electricity, and thoroughly equipped throughout. Besides the student apartments, this hall contains a reception-room, and in the basement an excellent bowling alley.

West College contains the College Commons. By means of funds provided by the Alumni, the first floor has been made into a thoroughly equipped modern dining-room. The Co-operative Dining Association, which has charge of the Commons, provides a most excellent quality of board at small cost. The dining-room is large, finished in oak, is well lighted, and has two open fireplaces. There are ample cloak and waiting rooms, and the kitchen and serving-rooms are models of convenience, making it possible to serve the best meals at the lowest expense. This Alumni Hall adds much to the comfortable living of the students. The second and third floors of West College are used as dormitories for men, and are equipped in the same thorough manner as the rooms in Smith Hall. The dormitory has also a large, pleasantly situated, and attractively furnished common room.

Bartlett Cottage, the Dormitory for women, named in honor of the late Sumner Bartlett, of Oshkosh, is situated at the southwest corner of the campus, just opposite the President's house. It is steam-heated throughout, and is supplied with hot and cold water. The suites for students consist of a study and bedroom, with the heavier pieces of furniture. In addition to these, the building contains a reception-room and a library, a guest-room, and also a kitchen and dining-room for occasional use. The reception-room is at the left of the entrance corridor; the rooms occupied by the resident Faculty member, Miss Simmons, are at the right. Through the generosity of the Advancement Association, the interior of the building has recently been made practically new.

Dawes Cottage. This is a frame building, now used as a dormitory for men, and is also the home of the engineer of the College.

Society Hall. The Old Chemical Laboratory, vacated when Ingram Hall was built, has been remodeled for other purposes. The north room is used for band practice, for debating societies and other men's clubs, on permission from the College office. The south room is used by the department of Mathematics, and is well equipped for the work of mechanical drawing.

The President's House. Dr. Merriman built for himself a large house just south of the College campus. This house is now the property of the College, and is the residence of the President of the College.

Central Heating Plant. A complete central heating plant has recently been installed. The system results in increased comfort in the buildings, and in a large saving in cost. The steam supply pipes connecting the various buildings with the boilers, are so thoroughly insulated in the conduits, that the waste from radiation is reduced to a minimum. The boilers carry high-pressure steam, and there is room in the boiler house for installation of dynamos for the production of light and power. This heating system has proved a success from every point of view.

The Gymnasium. The Indoor Athletic Field is of the best type of gymnasium architecture, and offers many unusual advantages for physical training and development.

The central portion of the indoor athletic field has a hardwood floor, 80 by 50 feet, for basketball, indoor baseball, tennis, and such games. Around the floor is a running-track, 17 laps

to the mile, with an earth floor. This affords sufficient space for early Spring training in all track and field sports, and for football and baseball, when the weather prohibits the use of the Ingalls Athletic Park.

The seating arrangement and gallery make it convenient for public intercollegiate athletic sports, and serve the purpose of an auditorium for college events.

The south section of the building contains the shower-baths, locker, rubbing and drying rooms.

The plans for the completed building include two wings. They will contain all the essential features of a modern gymnasium. The first floor of the men's section will be equipped for college club-rooms. The second floor will contain the gymnastic apparatus for calisthenics. The woman's section will be similar, having club-rooms and upper floor gymnasium. Each of the wings will be 90 by 50 feet.

THE COLLEGE EQUIPMENT.

The College Library occupies large central rooms on the first and second floors of Ingram Hall. The main reading-room is on the second floor, and there is also a reading-room on the first floor in connection with the stack-room.

The library, according to the latest accession number, contains 20,978 volumes, exclusive of pamphlets, of which there are about 3,000. The aim of the College in the library has been to get the best books by the best men. The result is an excellent working library, containing standard editions, critical works, books of reference, bound periodicals, etc.

In addition to the library and reading-room facilities on the campus, students have access to the city library, now in the new Carnegie building, one block from the campus. The college library and the city library are largely supplementary, the former being strong in works of reference, the latter naturally furnishing books of more general interest. Both are open with a uniform rule to students and citizens.

The Department of Religious Education has a good collection of appliances for modern religious education, including the leading graded text-books on the Bible, complete sets of the Tissot and Wilde pictures and those of the Presbyterian Board, and numerous books and other materials of value to those engaged in Sunday School work, or preparing for it. The department provides actual work in selecting and preparing materials for the various grades, and in teaching classes in a thoroughly graded school.

The library is maintained in part by the income of a special gift for the purpose from Mr. Andrew Carnegie.

Harry D. Clark Collection. The interest of a fund, raised by the class of 1898, as a memorial to their deceased classmate, Harry D. Clark, is available for the purchase of books. There are 183 volumes in this collection.

Benjamin Franklin Thomas Collection. The Thomas scientific library of physics was willed to the College library by the late B. F. Thomas, of the class of 1874. Dr. Thomas was Professor of Physics at Ohio University. There are about 400 volumes in this collection.

Other special collections in the library are: Clarissa Tucker Tracy Collection (71 vols.); Ripon Oratorical Union Collection (30 vols.); Delta Phi Sigma Collection (10 vols.); John James Collection (44 vols.). These collections are increasing each year.

The Department of Biology occupies the east end of the first floor of Ingram Hall. Its equipment comprises four laboratories, one each for Anatomy, Bacteriology, Physiology, and one for Histology and Embryology. All are equipped with the best and newest apparatus. The vivarium and the injection rooms are in the basement. Adjoining the laboratories is the lecture-room. Storage and preparation rooms adjoin.

Important additions are being made each year to the equipment of these laboratories. The department is especially well equipped for advanced laboratory work in physiology. Several hundred dollars' worth of apparatus is in duplicate for student work. This apparatus, as well as the laboratory manual used, is the same as that in use at the Harvard Medical College.

The Department of Physics occupies the west end of the first floor of Ingram Hall. This part of the building is particularly free from disturbances, well lighted, and admirably adapted for a physical laboratory. Every room is provided with sinks, gas and electric light connections, and electricity from a bank of storage cells located in the basement. Four slate-capped piers of masonry rising from deep in the ground serve for experiments requiring unusual stability. A large and convenient dark room, complete in its appointments, is provided for work in optics, photometry and photography. This is an interior room and also serves for a constant temperature room, as the building is heated by steam with thermostatic control.

The laboratories have all been remodeled and during the past few years newly equipped with the best grade of physical apparatus.

The aim of the department is to present the subject of Physics as a science of exact measurement, with particular emphasis on the physical principles involved. Consequently, the apparatus found in this laboratory has been selected with special reference to its ability to yield accurate results in the hands of average students. The equipment for courses in general physics, optics, heat, and electrical measurements is unusually complete, meeting all the demands of a thorough course in each of these subjects. Every student in the laboratory receives the personal attention of the head of the department, and is continually in receipt of instruction and suggestion by personal contact, which is the most valuable way in which information can be given.

The Department of Chemistry occupies the third floor of Ingram Hall; it has a large lecture-room, with a stock-room in close connection. The stock-room is conveniently arranged for chemicals and apparatus. Across the hall are the office library and balance-room, and the laboratories for general chemistry, qualitative, and quantitative analysis. There are also laboratories for organic chemistry and for private research. All laboratories are supplied with hoods and with individual desks, and each desk is furnished with lockers, gas and water. The lecture-room has every facility for demonstration, and the department is well equipped throughout.

Archaeological Collections. The departments of Latin and Greek possess an unusually fine collection of archaeological material. There are several thousand carefully selected photographs and slides, illustrating Greek and Roman history, geography, life and art. Also a small but carefully chosen collection of antiquities of special interest to students of the classics. There are 250 different Roman coins of the most important reigns of the Empire; more than fifty terra cotta lamps illustrating all the types, many of which are figured; Etruscan, Greek and Roman vases, dating from 750 B. C. to about 300 B. C.; bronze fibulae, keys, letter stamps, bone stili, spoons, dice, etc.; several fine specimens of glass from Greece and Italy; inscribed amphora handles, and numerous other articles connected with the daily life of the ancient Romans.

The Barber Collection of Minerals. The nucleus of this collection was given to the College by the Rev. Geo. W. Bar-

ber. This is supplemented by the New Orleans Collection, from the New Orleans Exposition; and by the Armstrong collection of 500 minerals and rocks.

In addition to these collections is the "Educational Series of Rocks," furnished by the United States Government, and several valuable specimens from the mining regions of Wisconsin and Michigan.

Biological Museum. This contains a collection of invertebrates and vertebrates, systematically arranged. The study of the few typical forms of animals studied in the laboratory can thus be supplemented by an investigation of the greater variety of forms to be found in the museum.

An interesting and valuable part of the exhibit is the Congdon collection of birds' eggs. These eggs, representing a large amount of research carried on in Wisconsin and Canada, were collected by Russell T. Congdon of the class of 1903.

Requirements for Admission

GENERAL REQUIREMENTS.

Entrance requirements are expressed in terms of units. A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work. This definition assumes that the length of the school year is from thirty-six to forty weeks, that a period is from forty to sixty minutes in length, and that the study is pursued for four or five periods per week. It further assumes that two hours of manual training or laboratory work is equivalent to one hour of class-room work. Fifteen such units are required for entrance.

Of the total fifteen units, not less than eleven units should consist of English, foreign language, mathematics, social science (including history), natural science, or other work conducted by recitations and home study.

The other four units may be additional academic work or work in mechanical arts, household science, or commercial subjects.

The following eight units are required of all:

English, 2 units; Mathematics, 2 units; Latin, German or French, 2 units; History, 1 unit; Science, 1 unit.

It is recommended that the high school course be planned so as to include two majors of three units each and one minor of two units. One of the majors should be English.

The provisions of this recommendation may be summarized as follows:

Nine specified units.

3 units of English.

2 units of one foreign language.

2 units of mathematics.

1 unit of social science, including history.

1 unit of natural science.

Two additional academic units. One or both of these units must be advanced work to meet the requirement of a second major of three units.

The College does not require Latin for entrance, but it does strongly recommend that when possible it be included as one of the entrance subjects.

Four units left as a margin for whatever work best meets the needs of the individual.

Admission Without Foreign Language.—Students who offer fifteen units for entrance may be admitted without foreign language, but the language requirements must be met during the freshman year. This will ordinarily require extra work to the extent of four hours a week for one year, which will not be credited as part of the number of unit hours required for graduation.

Admission by Certificate.—On the recommendation of the principal of the high school, with his certificate showing that the student has successfully completed the courses required for entrance, graduates of any Wisconsin high school, on the accredited list, will be admitted to the freshman class without examination.

DETAILS OF SUBJECTS.

English. 2, 3 or 4 units. All candidates for admission to the College must present two units in English, one of which should consist of composition, and one of the reading and study of English classics. The two units required in English correspond in amount and character to the work of the first two years of the standard high school course. It is recommended that at least three units be presented in English, the third unit to consist of additional work in composition, and either (1) of the reading and study of representative selections from English and American Literature or (2) detailed study of a few typical examples of the novel, the drama, the lyric, and the essay.

Preparation in English should have two main objects: (1) command of correct and clear English, spoken and written; (2) power to read with intelligence and appreciation. To secure the first end, training in grammar and in the simpler principles of rhetoric, and the writing of frequent compositions, are essential. The candidate must be able to spell, capitalize and punctuate with accuracy. He must show a practical knowledge of the essentials of English grammar, of the construction of the sentence, and of the simpler principles of paragraph division and structure. To secure the second end, the candidate is required to read the works prescribed by the Commission of New England Colleges and Secondary Schools. The student should read the books with a view to understanding and enjoying them, and should secure a reasonable degree of familiarity with their substance.

Greek. 2 units. Xenophon's *Anabasis*, four books; Homer's *Iliad*, three books, or an equivalent amount of the *Odyssey*; Greek composition.

Latin. 2, 3 or 4 units. If two units, they must be as follows: Caesar, four books, or Caesar, two books, and an equivalent to two books in selections from Caesar or Nepos. If two units additional are presented, they must include: Six orations of Cicero (selections from the letters may be substituted for two orations); Virgil, six books; Composition, preferably in connection with Caesar and Cicero.

German. 2, 3 or 4 units. German may be offered for entrance to the amount of two, three or four units, requiring respectively two, three or four years of high school study. A candidate who presents elementary German (2 units) should be able to pronounce and to translate at sight, into idiomatic English, simple German prose, to put easy English sentences into German, and to carry on a simple conversation in German, based upon the texts set for translation. If three or four units of German are offered, a proportionate amount must be presented.

French. 2, 3 or 4 units. French may be offered for entrance to the amount of two, three or four units, requiring respectively two, three or four years of high school study. A candidate who presents elementary French (2 units) should have a thorough knowledge of the grammatical forms of the language, and possess a sufficient vocabulary to read simple French with ease. If three or four units of French are offered, a proportionate amount must have been completed.

History. 1, 2, 3 or 4 units may be presented from the following subjects:

Ancient History to the year 800 A. B., 1 unit.

Mediaeval History, 1 unit.

English History, 1 unit.

United States History, 1 unit.

In Civics, Commercial Law, Economics, and Commercial Geography, a half unit may be offered for each subject, provided it represents a substantial course.

Mathematics. The work in Mathematics includes: Elementary Algebra, one unit; Geometry, plane and solid, one unit. Additional credit to the amount of one-half unit will be given for Advanced Algebra. This is required of students who wish to take the course in pre-engineering as outlined on page 29.

The unit of Elementary Algebra should include the following subjects: Fundamental operations, equations of the first degree with one unknown number, simultaneous equations of the first degree, factors, highest common factor, lowest common multiple, quadratic equations, simultaneous equations above the first degree, elementary theory of indices, and radicals.

In Geometry the requirements should indicate a combined course of one year in plane and solid geometry, and should consist of about 180 propositions, of which 45 must be in solid and spherical geometry.

If an additional half year of algebra is presented for admission, the work should cover simultaneous quadratic equations; ratio, proportion and variation, including graphical representation of simple relations between two variables; binomial theorem for positive integral exponents; logarithms, including use of tables in simple numerical work.

Physics. 1 unit. A year's course, including continuous and systematic laboratory practice. Any standard text-book may be used.

Chemistry. 1 unit. A year's course of descriptive chemistry, including both class-room and laboratory work. The student should keep a careful record of the experiments performed.

Botany. 1 unit. The course should cover a study of the life histories of types from the main groups of plants, and should include also a series of simple experiments.

One unit will be accepted in Physical Geography and in Zoology, provided it represents thorough systematic work of high school grade. A half unit also may be offered in Physiology.

ADMISSION BY CERTIFICATE.

On the recommendation of the principal of the high school, with his certificate showing that the student has successfully completed the courses required for entrance, graduates of any Wisconsin high school, on the accredited list, will be admitted to the freshman class without examination.

The list of accredited schools from which students will be admitted to the College on the certificate of the principal of the school, is the same as that of the University of Wisconsin. The regulations concerning the accredited schools also are the same as those in force at the University. Further information concerning these schools will be furnished on application.

The certificates of the work done in the high school should be made out on blanks which will be furnished on application, by the Dean of the College. They should be forwarded to the Dean, before the opening of the college year. Students will not be registered until the certificate is presented.

Certificates issued by the state normal schools, or by recognized academies of the state, will be accepted for the entrance requirements in the subjects covered by such certificates.

Students from the state normal schools who were graduated previously from an accredited, four-year high school course admitting to the college, will be given credit for their work toward the degree of Bachelor of Arts.

RIPON COLLEGE AND THE STATE UNIVERSITY.

Ripon College and the University of Wisconsin have practically the same entrance requirements and the same list of accredited schools. Students who migrate from either institution to the other will be given the rank of sophomores or juniors, if they change at the end of the first or second year of their work. It is not deemed advisable by either institution, for students to migrate at the end of the junior year; but where such cases occur, they will be dealt with on their individual merits.

The following statements from the catalogue of the University will indicate the arrangement between the University and the Wisconsin Colleges: "By arrangement with Beloit College, Lawrence College, Ripon College, Carroll College, and Marquette University, students of these institutions who have satisfactorily completed the work of the sophomore year will be admitted to junior rank in the College of Letters and Science. In case of migration at an earlier period than the end of the sophomore year, proportional credit will be given. Students who complete two years of work at Beloit, Lawrence and Ripon, will be admitted to the College of Engineering of the University of Wisconsin, on the same conditions as students who transfer to that college from the College of Letters and Science of the University of Wisconsin."

Requirements for Graduation

The requirement for graduation is one hundred and twenty (120) semester hours of credit in college courses and a satisfactory thesis on an approved topic connected with the major subject, or one hundred and twenty-four (124) semester hours of credit without thesis. The unit of measure, a semester hour, is one hour recitation or lecture, or one two-hour laboratory period per week for one semester. A course which meets four hours per week for one semester gives four (4) hours' credit. Regular work is fifteen hours per week.

SELECTION OF STUDIES.

In the selection and arrangement of studies, the student has considerable freedom, but his choice is in part limited by the following general requirements.

Freshman Year.

The regular work of the freshman year is four subjects, each continued through the year. English Composition is required of all, and at least one subject must be chosen from each of the following groups. The fourth subject may be taken from either group. For English Literature as an elective study in the freshman year, see page 47.

I.
Latin
Greek
French
German

II.
Mathematics
Chemistry
Biology
History

Sophomore Year.

In the sophomore year any of the subjects open to freshmen may be elected, and any of the required subjects not already completed should be included in the selection. Other electives open to sophomores are the following:

Latin
Greek
French
German
English Composition
English Literature
Archaeology

Philosophy
History
Economics
Mathematics
Chemistry
Biology
Physics

Junior and Senior Years.

By the time the student has reached the junior year, he is ready to select a subject in which to do advanced, cumulative work. This subject is called the student's major subject, and must include at least twenty hours' work in one of the following departments: Philosophy, Education, Greek, Latin, French, German, English, History, Economics, Mathematics, Biology, Chemistry or Physics.

Courses ordinarily open to freshmen are not counted toward the major. Exclusive of freshman courses, not more than twenty-eight hours of work in any one department will be counted toward a degree.

To secure breadth of training, the courses of study offered by the departments of the College have been arranged in four groups. The major subject will lie in one of these groups. In each of the other three, the student must select a minor or year course of at least eight hours' credit in one department. These minors are in addition to the courses required of all students.

The four groups from which the student selects his major and three minor subjects are as follows:

I.	II.	III.	IV.
Greek	Biology	History	Philosophy
Latin	Chemistry	Economics	Mathematics
German	Physics	Political Science	
French		Education	
English			
Music			
Archaeology			

The group system readily adapts itself to the individual, by permitting a wide latitude in the choice of studies. At the same time, the importance of making a careful choice, under the best advice, cannot be emphasized too strongly. As some courses are given only on alternate years, and because of possible conflicts in the hours of recitation, the general plan of the student's work for the remainder of the course should be made by the beginning of the sophomore year. It is important that the courses should be planned as a whole with a definite end in view; and when once planned the student should not allow himself to be diverted from it for any but the most serious reasons.

The requirements for graduation may be summed up as follows:

English, ten hours, including Composition C1.

Two courses of one year each in foreign language (or three courses if less than four units of foreign language were offered for entrance).

A year course in each of four groups of studies and an additional amount of work in one of these four subjects to constitute the major subject.

Free election to make the total of one hundred and twenty hours required for graduation, or one hundred and twenty-four hours without thesis.

The degree of Bachelor of Arts is conferred upon all who complete the course.

HONOR CREDITS.

In addition to the 120-hour credits necessary for graduation, each student must earn at least 124 honor credits, or an average mark in all subjects of C or higher.

Class standings are indicated by letters. A, B, C and D are passing grades. For a grade of A in a given course, the student will receive three times as many honor credits as there are hour credits in the course; for a grade of B, twice as many honor credits; and for a grade of C, as many honor credits as hour credits. For example: A four-hour course in which the student's mark is A, gives twelve honor credits; if the grade is B, eight honor credits; and if C, four honor credits.

GENERAL REGULATION GOVERNING REGISTRATION.

Monday and Tuesday, September 14 and 15, are registration days. The registration office is open from nine till twelve and from one-thirty till five, and all students are expected to register at that time. For registration after this date, or for change of registration, a fee of one dollar is charged. After three weeks of a semester have passed, no change in registration can be made without the consent of the Registration Committee, and a study which is dropped without the consent of this Committee is recorded as a failure.

No credit is given for any work not regularly registered in advance. Application for advance credit for work taken before entering the College must be made within one year of the time of entrance.

All entrance conditions must be included in the work of the first year.

Regular work in the Freshman year is 15 semester hours per week or 4 courses, which in some courses may amount to 16 hours. For all other students, the regular work is 15 to 18 hours. More work than this may be taken only on consent of the Registration Committee, and this consent is not given unless the student has maintained an average of C in the last semester, and is not falling below D in any subject.

New students will go first to the Dean of the College, who will assign them to faculty advisers. The registration form is made out after consultation with the adviser, and must bear his signature when it is filed with the Registrar. The registration form for succeeding years must be approved by this same faculty adviser, until the student selects his major subject. The professor in charge of this department then becomes his adviser.

TRAINING FOR PROFESSIONAL COURSES.

The courses of study which are given on the following pages, have been arranged, after consultation with the University of Wisconsin and the University of Chicago, to meet the requirements of professional courses.

It should be noted, moreover, that each is a well-rounded course of study, and meets the college requirements. In planning his college work, the student is advised to consult these courses, and also his faculty adviser or the registration committee.

AGRICULTURE AND MEDICINE.

The following course of study has been arranged for students who expect later to enter a school of agriculture or a medical college.

Freshman Year.

English Composition.
German, 1-2.
Chemistry, 1-2, or Biology, 1-2.
Mathematics, 1-2.

Sophomore Year.

Biology, 1-2, or 3-9.
Chemistry, 1-2, or 3-4.
German, 1-2, or French, 1-2, or Latin.
Physics, 1-2.

Junior and Senior Years.

The work of these years will vary with the tastes of the student, and will in part be determined by the particular school which he proposes to enter. The student should arrange his work only after careful advice, in order that the college course may be correlated as fully as possible with the work of the professional school. His program will include advanced courses in Biology and Chemistry, and electives chosen from the following list:

English Composition.
English Literature.
Economics.
Education.

History.
Physics.
Philosophy.

Medical students should include Psychology and Latin if it was not included among the entrance subjects. Greek also is desirable.

PREPARATION FOR ENGINEERING.

The Pre-Engineering Group is intended to meet the needs of those students who wish to secure a thoroughgoing foundation for advanced study in engineering. It is hoped, therefore, that after graduation most of those who pursue this group of studies will desire to carry on their work at the University of Wisconsin or elsewhere. The agreement below has consequently been entered into by the University and Ripon College.

1. Graduate of Ripon College, who have followed the course outlined as the Pre-Engineering Group of studies, will be graduated from the various engineering courses leading to the degree of Bachelor of Science in two additional years; provided that students in civil engineering can make arrangements to complete the sophomore surveying before entering the University. (This may be done in the University Summer School.)

2. Graduates who have pursued the studies of this group, will be graduated from the advanced engineering course leading to the professional degree in two years and two summer sessions at the University, with the provision concerning students in civil engineering above noted.

Note. The course as outlined, gives eighteen hours' work per week for freshmen, while the regular work is but fifteen or sixteen hours. This course may be made to conform to the

general plan, by deferring the course in Mechanical Drawing until the sophomore year. The student who undertakes eighteen hours' work, will be required to comply fully with the honor credit rule, or reduce the amount of work.

First Year.

First semester. English, three hours; German or French, four hours; Chemistry, five hours; Algebra, three hours; Mechanical Drawing, three hours. Second semester. English, four hours; German or French, four hours; Chemistry, four hours; Trigonometry, three hours; Mechanical Drawing, three hours.

Second Year.

First semester. Analytical Geometry, two hours; Differential Calculus, three hours; General Physics, five hours; ¹Quantitative Analysis, four hours; ³Descriptive Geometry, three hours; Electives: French or German, three hours; Composition, three hours; English Literature, three hours. Second semester. Analytical Geometry, two hours; Integral Calculus, three hours; General Physics, five hours; ³Descriptive Geometry, three hours; ¹Analytical Chemistry, four hours; Electives: German or French, three hours; English Composition, three hours.

Third Year.

First semester. Advanced Calculus, three hours; ²Organic Chemistry, five hours; Suggested Electives: Biology, four hours; Economics, four hours; Logic, two hours; Education, four hours. Second semester. ³Differential Equations, three hours; ³Heat, four hours; ²Physical Chemistry, three hours; Suggested Electives: ²Botany, three hours; Economics, four hours; Ethics, two hours; Education, four hours.

Fourth Year.

First semester. Theoretical Mechanics, three hours; ²Bacteriology, five hours; ³Electricity and Magnetism, three hours; Suggested Electives: History, four hours; Advanced Chemistry, four hours; Philosophy, four hours; Sociology, four hours. Second semester: Theoretical Mechanics, three hours; ³Electrical Measurements, two hours; Suggested Electives: History, four hours; Philosophy, four hours; Psychology, four hours.

¹ Required of Chemical, Sanitary, Electrical, Mining and Electrochemical Engineers.

² Required of Chemical and Sanitary Engineers.

³ Required of Civil, Mechanical and Electrical Engineers.

PREPARATION FOR THEOLOGY.

The College offers all the courses usually taken in preparation for the study of theology. The courses outlined under the head of Philosophy, with suitable electives chosen under the direction of the head of that department, meet the approval of most theological seminaries.

It is possible for graduates of good rank to secure one year of advanced credit in leading theological seminaries, upon recommendation of the faculty.

PREPARATION FOR TEACHING.

The course for the preparation of teachers is intended to give the broadest and most complete training for high school teaching, consistent with a college course. There are three qualifications about equally essential for a successful teacher, namely: general culture and intelligence, mastery of the subject, and skill in the theory and art of teaching. The course provides for all three of these requirements. Its chief merit lies in the scope and thoroughness of the courses in Education.

No one is recommended as a teacher who has not completed a college course, and earned a bachelor's degree. This course must contain Psychology, and at least one full year of the regular work in Education. It is strongly recommended that all the courses be taken.

The department of Education offers four standard four-hour courses, covering two years, and dealing in a thorough manner with the History and Philosophy of Education, with educative values and the fundamental principles governing method, with the special problems of teaching, management, and constructive ideals of life. Instruction is given in training young people to study and manage their own mental operations, to use libraries and reference books, and to get the right attitude toward life.

The several departments in Ripon College offer Courses for Teachers of those subjects, in which reviews of the elementary matter are given, with special reference to teaching it in high schools.

Systematic and critical observation of high schools in actual operation is a regular part of each year's work. There is also considerable opportunity for getting valuable experience in the actual work of a teacher, through the appointment of fellows and substitute teachers.

To worthy students who have taken these training courses, assistance is given, during the senior year, that they may secure good positions. The efforts of the faculty in this direction have been very successful. School men, understanding the character of the work done and the method of recommendation, are constantly writing for candidates. While no guarantee can be made, it is safe to say that every student who proves worthy, and desires a position, will secure one.

One O'Clock	Composition 3	T							
	French 5	M		W		F			
	German 7		T		Th				
	Greek 9		T		Th				
Two O'Clock	History 30	M	T		Th	F			
	Archaeology 1		T		Th				
	Composition 1	M			Th	F			
	Economics 1	M	T		Th	F			
	English 3a		T		Th	F			
	French 7	M	T		Th				
	German 5	M	T		Th				
	Greek 1	M	T		Th	F			
	History 12a		M		Th	F			
	Mathematics 3	M	T		Th				
	Mathematics 7	M	T						
Three O'Clock	Bible	M	T		Th				
	Chemistry 5		T		Th	F			
	German A	M	T		Th	F			
	German 3	M	T		Th				
	History 20		T		F				

Laboratory Hours.

Biology 1, M., Th., 1:15 to 3:15;
 Chemistry 1a, M., Th., 1:15 to 3:15; Chemistry 1b, T., F., 1:15 to 3:15.

Laboratory hours for advanced courses in Biology, Chemistry, Physics, M., T., Th., F., 1:15 to 3:15; Saturday, 8 to 12.

Second Semester, 1914-15.

Eight O'Clock	Biology 3		T		Th				
	Education 8		T	W	Th	F			
	Composition 1	M		W		F			
	English 3b		T	W	Th	F			
	Latin 4	M		W		F			
Nine O'Clock	Mathematics 2	M		W		F			
	Composition 1	M		W		F			
	English 1a		T		Th				
	English 1a			W		F			
	French 4	M		W		F			
	Greek A	M	T	W		F			
	History 15	M	T		Th	F			
	Mathematics 12	M		W		F			
	Philosophy 3		T	W	Th	F			
	Physics 2		T		Th				
	Public Speak'g 8	M		W					

Laboratory Hours, 8 to 10 a. m.

Biology 3 M F
 Physics 2 M W F

Ten O'Clock	Biology 10	M T W	F	Latin 9	M T	Th
	Chemistry 10	M	W	Mathematics 9	M	W F
	French 2	M T W	F	Mathematics 8	T	Th
	German 2	M T W	Th	Psychology	T W	Th F
	Latin A	M T W	F	Sociology 1	M T W	Th

Eleven O'Clock	Biology 5	M	W	German 2	M T W	Th
	Biology 8	T	Th	History 8	M T W	Th
	Chemistry 2		W F	Latin 2	M T W	Th
	Chemistry 4	T	Th	Physics 4	T	Th
	Chemistry 12	M	W	Physics 7	M	W F
	English 6	M T W	Th	Psychology		F
	Economics 9	M	W F			

One O'Clock	Botany 9	M	F	<p>Laboratory Hours.</p> <p>Biology 2, M., Th., 1:15 to 3:15; Biology 3, T., F., 1:15 to 3:15; Chemistry 2a, M., Th., 1:15 to 3:15; Chemistry 2b, T., F., 1:15 to 3:15.</p>		
	Composition 4	T				
	French 6	M	W F			
	German 8	T	Th			
	Greek 9	T	Th			

Two O'Clock.	Archaeology 4	T	Th	<p>Laboratory hours for advanced courses in Biology, Chemistry, Physics, M., T., Th., F., 1 to 3; Saturday, 8 to 12.</p>		
	Composition 1	M	Th F			
	Economics 2	M T	Th F			
	English 9	T	Th F			
	French 8	M T	Th			
	German 6	M T	Th			
	Greek 2	M T	Th F			
	History 12b	M	Th F			
	Mathematics 3	M T	Th			
	Mathematics 7	M T				

Three O'Clock	Bible 3	M T	Th	Mathematics 3	M T	Th
	Biology 2	M	F	Mathematics 7	T	
	German 4	M T	Th	Public Speak'g 10	T	F
	German A	M T	Th F	Sociology 4	T	Th F
	History 21	T	F			

Description of Courses

ARCHAEOLOGY.

Professor Erickson.

1. **Classical Archaeology.** A study of important centers of ancient civilization, as Knossus, Mycenae, Athens, Delphi, and Olympia. Study of monuments which are most important for a knowledge of Greek architecture and sculpture. **Lectures** on the minor arts. Emphasis is placed on the relation of archaeology to literature and history.

First semester. Two hours. T., Th., 2:15.

3. **Topography and Monuments of Rome.** The growth of the ancient city from its foundation to the fourth century; the topography of Rome; study of important monuments. **Lectures** on Roman architecture and sculpture.

First semester. Two hours. (Omitted in 1914-15.)

4. **Pompeii and Roman Private Life.** The excavations of Pompeii are studied and made the basis of a course of lectures on the life of the Romans.

Second semester. Two hours. T., Th., 2:15.

BIBLE AND RELIGION.

Professor Evans.

These courses are pursued with the same exacting requirements of scholarly work as any other course. The Bible is taught with reverent scholarship, and a knowledge of the Bible is considered as an essential element of culture and a practical requisite of life. The courses are given by four men who are especially interested and qualified in their own subject-matter and point of view.

1. **Theism.** In this course the student is led to an appreciation of that system of philosophy which finds its first principle in a Personal God. Open to juniors and seniors. **Lectures, Class Discussions, Readings.**

First semester. Three hours. M., T., Th., 3:15.

2. **The Messages of Hebrew Prophecy.** This vital literature will be studied in its historical and sociological aspects.

Second semester. Three hours. (Omitted in 1914-15.)

3. **The Life and Letters of the Apostle Paul.** The biography of this great Christian Missionary will be carefully studied from the Book of Acts, and his writings studied in their proper settings, with a view to a perspective of his underlying truths.

Second semester. Three hours. M., T., Th., 3:15.

The two courses above will be given in alternate years.

4. **Ethics.** The study of moral development, moral principles, and application of morals to present-day problems. Open to juniors and seniors. Text-book: Dewey and Tufts.

Second semester. (Omitted in 1914-15.)

BIOLOGY.

Professor Talbert.

Mr. Martin.

The department of Biology has courses that are well adapted for general culture, and for specialization. Those who intend to teach or to study medicine, agriculture or forestry, will find suitable courses, and laboratories well equipped for these special subjects.

1. **General Zoology.** The anatomy, and to some extent the physiology, embryology, taxonomy, behavior and habitat of invertebrate animals are studied. Dissections and drawings are made of representatives of the most important classes of invertebrates.

Text-books: Hegner's "College Zoology." Laboratory guide: Pratt's "Invertebrate Zoology."

First semester. Four hours. T., Th., 8:00; Laboratory, M., Th., 1:15-3:15.

2. **General Botany.** A study of the morphology and physiology of the types of all classes beginning with the unicellular forms and ending with the flowering plant, much emphasis being laid on the development from the evolutionary standpoint.

Text-book: Parker's "Biology."

Second semester. Four hours. M., F., 3:15; Laboratory, M., Th., 1:15-3:15.

3. Comparative Anatomy of Vertebrates. This course is designed to give an idea of the life history of vertebrates. The frog is taken as a type, and a fairly complete study is made of its natural history, anatomy, physiology, and development. Instinct, intelligence, adaptation to environment, etc., are also discussed. This is followed by a comparative study of different types of chordates like the balanoglossus, amphioxus, petromyzon, shark, necturus, frog, pigeon and some mammal, which is intended to give the student a comprehensive knowledge of the structure and development of vertebrates in general, for a better understanding of the position of each in the evolutionary history of the group.

Text-books: Pratt's "Vertebrate Zoology" and Hegner's "College Zoology."

Second semester. Four hours. T., Th., 8:00; Laboratory, T., F., 1:15-3:15.

4. Histology. The student who has completed course 3 on the gross anatomy of animals, is prepared to study the microscopic structure of the various tissues. Each student prepares sections, stains, and mounts tissues, and makes drawings from his own preparations and from slides belonging to the department. This course is well adapted for those anticipating medicine, agriculture or forestry.

Prerequisite: Course 3.

Text-book: "Histology," Hill.

First semester. Four hours. T., 11:15; Laboratory, T., Th., F., 1:15-3:15.

5. Embryology. Work is confined to the embryology of vertebrates, the frog and the chick serving as types. The laboratory is provided with an incubator, and each student makes preparations of the different stages of development of the types studied. This course and No. 4 will give a student advanced credits in all the leading medical colleges.

Prerequisite: Courses 3 and 4.

Text-book: Lillie's "Development of Chick."

Second semester. Five hours. M., W., 11:15; Laboratory, M., T., Th., 1:15-3:15.

6. Bacteriology. This course is intended to give training in bacteriological technique, and to give a knowledge of the principles of bacteriology. The characteristics of a number of typical bacteria are worked out in detail, and then the names of unknown species are determined. Experiments are per-

formed, illustrating the physiological characteristics of bacteria. Quantitative analyses are made of air, milk, water. Those who desire this course as a preparation for Agriculture, can make suitable arrangements as to hours and special work.

Text-books: "Laboratory Manual," Frost, and "General Bacteriology," Jordan.

First semester. Five hours. Th., Sat., 10:15; Laboratory, M., T., Th., 1:15-3:15.

7. Physiology. This course is especially valuable to those intending to study medicine. It will also be found helpful by students intending to teach, and by those taking courses in psychology. The subject is taught by lectures, recitations, demonstrations and laboratory work. Much attention is given in the laboratory to muscle and nerve preparations, extrinsic and intrinsic action on the heart, blood pressure, vasomotor action, mechanical and chemical action of respiration, tests for foods and the artificial digestion of foods, functions of brain, spinal cord, and special senses.

Text-books: "Introduction to Physiology," Porter, and Howell's "Text-book of Physiology."

First semester. Five hours. T., W., Th., F., 9:00; Laboratory, W., 1:15-4:15.

8. Paleontology. This is a course for the study of extinct animals, which is especially valuable for those who have studied Comparative Anatomy and Embryology. The former is considered a prerequisite, while the latter would be helpful. This subject will give a student a clearer insight into the evolutionary developments of animals. The museum is well equipped in fossils, especially those of the Wisconsin formations. The laboratory work consists of a study of these fossils.

Text-books: "Extinct Animals," Lankester; "Paleontology," Zittel.

Second semester. Two hours. T., Th., 11:15.

9. Agricultural Botany. This course is especially adapted for students who are interested in agriculture and forestry. While some time is devoted to morphology and physiology, especial emphasis is placed upon the classification of cultivated plants and their parasitic fungi.

General Botany, Course 2, is recommended as a prerequisite.

Text-books: Percival's "Agricultural Botany," with references in the various agricultural experimental station publications.

Second semester. Four hours. M., F., 1:15; Laboratory, T., Th., 2:15-4:15.

10. Physiology and Hygiene. This course is open, without prerequisite, to all college students. Only enough anatomy is studied to give the necessary foundation for an understanding of the workings of the human body. Much of the time is devoted to questions of personal hygiene and public health. Lectures, demonstrations, and recitations, with a few laboratory exercises.

Text-book: Martin's "Human Body," Advanced.

Second semester. Four hours. M., T., W., F., 10:15.

11. Journal Club. This course consists mainly of the review of articles in the biological journals. Only students who are making biology their major subjects or are advanced students in biology are admitted to this class. By this course the student comes in touch with the latest research. He acquires a special discipline in the reviewing of articles before a class.

Through the year. One hour. To be arranged.

CHEMISTRY.

Professor Gilman.

Mr. Preston.

The department of Chemistry, in a variety of courses, offers to the students ample facilities to prepare themselves for modern laboratory practice. The work of the first year consists of a thorough course in general chemistry and qualitative analysis, including lectures, recitations, and laboratory experiments. During the second year the students are given a systematic training in analytical methods, which is followed in the third year with courses in organic chemistry, and in the fourth year with courses in physiological and industrial chemistry. To students intending to pursue the study of medicine, opportunity is given to prepare for meeting the requirements now prescribed for candidates by the foremost medical schools of the country.

First Year.

1. General Chemistry. The work in this department begins with a course in elementary inorganic chemistry, with laboratory practice. It includes a study of the fundamental laws, and the non-metallic elements and their compounds. Lectures, recitations, quizzes, problems.

Prerequisite: Elementary Physics.

First semester. Five hours. M., W., F., 11:15; Laboratory, M., Th., 1:15-3:15; or T., F., 1:15-3:15.

2. Qualitative Analysis. This is a continuation of course 1. A careful investigation of the metallic elements and their compounds is made during the first part of the semester, and the remainder of the time is devoted to Qualitative Analysis.

Prerequisite. Chemistry 1.

Second semester. Four hours. W., F., 11:15; Laboratory, M., Th., 1:15-3:15, or T., F., 1:15-3:15.

Second Year.

3. Quantitative Analysis. Lectures, recitations, and laboratory practice in the use of the methods of gravimetric and colorimetric analysis; separation and estimation of metals, acids, and water of crystallization.

Prerequisite: Chemistry 2.

First semester. Four hours. Th., 11:15; Laboratory, M., T., Th., 1:15-3:15.

4. Analytical Chemistry. This is a continuation of course 3. Special applications of volumetric analysis; analysis of alloys, mineral and water analyses.

Prerequisite: Chemistry 3.

Second semester. Four hours. T., Th., 11:15; Laboratory, T., Th., 1:15-3:15.

Third Year.

6. Organic Chemistry. A course in general organic chemistry. Lectures, recitations, and laboratory work. The Aliphatic Series with special reference to the more important hydrocarbons and their derivatives.

Prerequisite: Chemistry 4.

First semester. Five hours. M., W., F., 10:15; Laboratory, S., 8:00-12:00.

10. **Advanced Organic Chemistry.** The Aromatic Series. Lectures, recitations, and laboratory work.

Prerequisite: Chemistry 6.

Second semester. Four hours. M., W., 10:15; Laboratory, M., F., 1:15-3:15.

Fourth Year.

5. **Medical and Physiological Chemistry.** A technical course for those who are preparing for the medical profession. This includes the examination of blood, muscular tissue, gastric digestion, testing of milk, and urinary analysis.

Prerequisite: Chemistry.

First semester. Five hours. T., Th., F., 3:15; Laboratory, M., F., 1:15-3:15.

12. **Industrial Chemistry.** Lectures and collateral reading, and laboratory practice. The subjects are: Cement, mortar and building material, milk products, cereals, starch, sugar, meat, oils, fats and soaps. Bleaching and dyeing. Tanning.

Prerequisite: Chemistry 6.

Second semester. Four hours. M., W., 11:15; Laboratory, S., 8:00-12:00.

9. **History of Chemistry.** This course is designed for advanced students. During the first semester a study will be made of the history of chemistry, and during the second semester the historical development of the important theories of chemistry.

Prerequisite: Chemistry 4.

One hour. Time arranged on consultation.

8. **Research Work.** This course is designed for advanced students in chemistry. Special subjects, and the amount of credit, will be arranged on consultation with the instructor.

11. **Journal Club.** This course consists of discussion of articles appearing in the scientific magazines. An elective course for students in advanced Chemistry.

One hour through the year. Time arranged on consultation.

ECONOMICS AND SOCIOLOGY.

Professor Nourse.

ECONOMICS.

1. **The Principles of Economics.** A general survey. Its purpose is to acquaint the student with fundamental principles,

to open the field for a more detailed and extensive study, and to offer such rules and principles as are contributed to business success by the science of economics.

First semester. Four hours. M., T., Th., F., 2:15.

2. Economic History of the United States. Natural resources; economic aspects of colonization and relations to the mother-country; westward expansion and the results of free land; protective tariffs and the growth of industrialism in their bearing on present problems. Application of the principles developed during the first semester course is emphasized throughout.

Second semester. Four hours. M., T., Th., F., 2:15.

4. Money, Credit and Banking. Character and functions of money; currency system of the United States; value of money and its relation to price; credit and credit instruments; functions of the modern commercial bank; state and national banking, savings banks and trust companies; theory and history of recent reforms.

First semester. Four hours. (Omitted in 1914-15.)

5. Business Administration. Forms of business organization; the problem of entrepreneurship; methods of attacking production costs; scientific management, commercial organization, financial relations; legal and social considerations.

Second semester. Four hours. (Omitted in 1914-15.)

6. Corporations. Financial, economic and social characteristics of corporate business institutions; work of the promoter, financial plan, flotation of the securities; responsibilities of directors; reorganization; government regulation.

First semester. (Omitted in 1914-15.)

7. Labor Problems. Origin and nature of labor problems; methods of payment, conditions of work, unemployment, pensions, employers' liability. History of the union movement, its achievements and present aims.

First semester. Three hours. M., W., F., 11:15.

9. Transportation. Economic importance of communication; public road building in the United States, the canal epoch; railway development and rates; the Interstate Commerce Commission and State Railway Commissions; ocean and inland water transportation; the problem of our internal waterways.

Second semester. Three hours. M., W., F., 11:15.

SOCIOLOGY.

1a. Elementary Social Science. A study of the principles of human association; social origins and forces; the social process and a study of the great human institutions; an examination of the nature of social goals and the methods by which we approach them.

First semester. Four hours. M., T., W., Th., 10:15.

1b. Problems in Applied Sociology. An attempt to apply the principles of our social science to the actual facts of life; co-operation and control; the problems of the dependent, defective, and delinquent classes; social sanitation and hygiene; possibility of removing pathological conditions.

Second semester. Four hours. M., T., W., Th., 10:15.

3. Social Methods. The social survey and its place in schemes of reform; character and scope of surveys for different conditions and purposes; the social settlement, its activities, usefulness, and limitations; the church school, civic organization, etc., as agencies of social betterment.

First semester. Three hours. T., Th., F., 3:15.

4. American Society. An examination of the social situation in the United States today, and an attempt to appraise the character and tendency of certain institutions such as trade unions, women's clubs, newspapers, the theatre, moving-picture houses, the grange or other rural associations.

Second semester. Three hours. T., Th., F., 3:15.

EDUCATION.

Professor Mutch.

The courses in Education are all intended for general culture, and not merely as a preparation for the teaching profession. This subject is unsurpassed in culture value. It fits one for the understanding and mastery of self, and so for good citizenship, and for the ordinary responsibilities of home and society.

At the same time the fact is kept in mind that a majority of the graduates of Ripon College become teachers in high schools, normal schools, and colleges. Work is chosen for these courses which experience has shown to be most useful in preparing graduates to meet the requirements of these positions in a broadly competent way. This policy has created a steadily-increasing demand for Ripon College teachers.

In accordance with the laws enacted by the legislature of 1907, section 458b-2, certificates are issued to all graduates who complete the requirement of twelve hours in Education. This certificate, when presented to the State Superintendent, entitles the holder to receive a license to teach in any public school in Wisconsin for one year. Graduates who have received this certificate, and present satisfactory evidence of good moral character and one year of successful teaching after graduation, are entitled to receive from the State Superintendent an unlimited state certificate.

For those who expect to make teaching their life work it is desirable to take all the courses offered in this department, and at least one of the departmental courses for teachers. The courses in Education are not accepted as Philosophy.

5. History of Education. This course is based on Monroe's "Brief Course in the History of Education." There are some selected outside readings, and an additional study of the history of education in the United States. This is the best point at which to begin the subject of Education, if one desires the full two years in this subject.

First semester. Four hours. (Omitted in 1914-15.)

6. Pedagogy. Theory and general method of teaching, based on educational psychology and the best modern practice; special method, training, discipline, school management. Text-book such as Bagley's "Educative Process," lectures, outside reading, class-room discussions, written papers, observation.

Second semester. Four hours. (Omitted in 1914-15.)

7. Philosophy of Education. A study of the fundamental theory of Education, especially in its psychological, biological, and sociological aspects. Outside reading, class discussions, written papers. Text-book: Bolton's "Principles of Education."

First semester. Four hours. T., W., Th., F., 8:00.

8. High School Teaching. A study of the pedagogy of secondary education; the organization and curriculum of the high school; the educational value of the subjects, general and special method; teaching how to study, and to use reference books and libraries. The course is conducted by lectures, outside reading, discussion, written papers, systematic observation work, and some practice in teaching.

Second semester. Four hours. T., W., Th., F., 8:00.

9. Religious Education. What religion is, its factors and forms; the church school, its history, organization and curriculum; Bible teaching, its aim, gradation and method; the home, the church, and the public school as related to the subject.

First semester. Three hours. T., W., F., 10:15.

11. Psychology. An elementary course in general Psychology, with a combination of text-book, topical discussion, and simple experiments. While the course is classed under the general head of Education, it is one of the general and fundamental courses which every student should have, and it should not be left until the senior year.

Second semester. Four hours. T., W., Th., 10:15; F., 10:15-12:15.

12. Colloquium. Reports on books, journals, and other current discussions in Education and Philosophy. Open to students of either subject.

Through the year. One hour. Time to be arranged.

ENGLISH COMPOSITION.

Professor Erickson.

The College requires for graduation a total of ten hours credit in English. Six hours of the ten must be taken during the first year in course C1 in Composition. For the remaining four hours the student may elect either the course in the History of English Literature known as 1a or an advanced course in composition. English C1 is a prerequisite for all other courses in English except 1a.

C1. Freshman English Composition. A practical course in written and oral composition. Recitations, themes, and conferences. The longer themes are based on assigned reading and class discussion of certain important essays on vital subjects.

Students who complete this course may be required to take an additional course in composition if they are found later to be careless or deficient in English composition.

Text-book: "English Composition in Theory and Practice" by Canby and others.

Through the year. Three hours.

Section 1, M., W., F., 8:00.

Section 2, M., W., F., 9:00.

Section 3, M., Th., F., 2:15.

C3. Exposition. This course is designed for students who desire practical ability in composition rather than literary attainment. To this end the models for analysis and imitation are chosen from the best examples of modern scientific writing. The range of subjects in each case will be determined by the student's interest.

First semester. Two hours. T., 1:15. Conferences to be arranged.

C4. Advanced Composition. A course in narration and description. The special aim is to develop ease of style, together with clear and vigorous statement. Attention is given to the methods of the best contemporary writers.

Second semester. Two hours. T., 1:15. Conferences to be arranged.

C2. Journalism. A course in the study of newspaper methods, reporting, editorial writing, and feature work. Lectures and assignments. Limited to ten.

First semester. Two hours. (Omitted in 1914-15.)

C12. Course for Teachers. This course is recommended to students who plan to teach English. It consists of a rapid and comprehensive review of the elements of composition. The work is carried on with a view to impress on the minds of teachers the fundamental principles of effective writing. This course is given in connection with course 12a under Professor Taintor.

Second semester. One hour. To be arranged.

For other courses in Composition see Public Speaking.

ENGLISH LITERATURE.

Professor Taintor.

1a. The History of English Literature. The course consists of a general survey of English literature from the earliest period to the Victorian age. It deals with the facts and the literature with which the student has been made acquainted in the high school, but considers them from a different viewpoint. It is in large part a reading course. Open to freshmen.

Required of all whose major work is in English.

Through the year. Two hours.

Section 1, T., Th., 9:00.

Section 2, W., F., 9:00.

10. The American Poets. Readings from the representative poets of America. In connection with the course lectures will be given on the Principles of Elementary Criticism.

This course should be taken when possible in the sophomore year.

First semester. Four hours. T., W., Th., F., 8:00.

3a. Shakespeare's Tragedies. This course is intended for juniors and seniors. It is open to sophomores only by special permission.

First semester. Three hours. T., Th., F., 2:15.

5. The Romantic Movement. Studies in the poems of Wordsworth, Coleridge, Scott, Byron, Shelley, Keats, with lectures on the age which they represent.

First semester. Four hours. M., T., W., Th., 11:15.

12. This course is given in connection with the course under Professor Erickson (C12, second semester), and should be taken only by those who plan to take the whole year's work.

Open only to juniors and seniors.

First semester. One hour. Hour to be arranged.

3b. Shakespeare's Comedies. This is intended as a sophomore course, and should be taken before the other Shakespeare courses.

Second semester. Four hours. T., W., Th., F., 8:00.

9. The Bible as Literature. This course attempts to present the great variety of types of literature found in the Old and New Testaments, dealing with them as with similar types found elsewhere.

Second semester. Three hours. T., Th., F., 2:15.

6. The Age of Tennyson. Studies of the poems of Tennyson and Browning.

Second semester. Four hours. M., T., W., Th., 11:15.

2. Chaucer. This course is designed for those who desire a general acquaintance with Chaucer's poems, and an insight into the life of the fourteenth century. It consists chiefly in the reading of the poems, with frequent reports upon matters pertaining to his times. It requires no previous study of Middle English.

Second semester. Two hours. (Omitted in 1914-15.)

3a. Shakespeare's Historical Plays.

Three hours. (Omitted in 1914-15.)

4. The Age of Milton. Special attention will be given to "Paradise Lost" and "Paradise Regained." Assigned readings and reports on the life and work of Milton. A brief study will be made of Bunyan's "Pilgrim's Progress." Not open to sophomores.

First semester. Four hours. (Omitted in 1914-15.)

7. English Prose from Bacon to Ruskin.

Second semester. Two hours. (Omitted in 1914-15.)

FRENCH.

Associate Professor Simmons.

1 and 2. Elementary French. Grammar, reading, composition, dictation, and oral exercises. Fraser and Squair's French Grammar. Much attention is paid to pronunciation; and, as far as possible, French will be the language of the class-room.

Through the year. Four hours. M., T., W., F., 10:15.

3. Sophomore French. Reading and composition; supplementary reading and reports. The class-room work is, as far as possible, conducted in French. The following texts suggest the nature of the reading, rather than the actual works that may be read: Daudet's Short Stories; Mérimée's "Colomba"; Erckmann-Chatrian's "Conscrit de 1813"; De Vigny's "Cachet Rouge," etc.

First semester. Three hours. M., W., F., 9:00.

4. Sophomore French. A continuation of Course 3.

Second semester. Three hours. M., W., F., 9:00.

5. Advanced Reading. The texts will be chosen largely from the seventeenth century classics, and from the novels and dramas of the nineteenth century. A large amount of reading will be done; students will give frequent written and oral reports and summaries in French.

First semester. Three hours. M., W., F., 1:15.

6. Advanced Reading. A continuation of Course 5.

Second semester. Three hours. M., W., F., 1:15.

7. French Literature. General survey of the fourteenth, fifteenth and sixteenth centuries. Lectures, readings and reports.

First semester. Three hours. M., T., Th., 2:15.

8. French Literature. The seventeenth century. Lectures, readings and reports.

Second semester. Three hours. M., T., Th., 2:15.

GERMAN.

Professor Harwood.

Miss Van Harlingen.

A. Course for Beginners. This course is arranged for students who have not met the college entrance requirements in German. The work, if satisfactorily done, will admit the student to the Freshman German.

Prokosch's "Introduction to German." Reading, dictation, memorizing, reciting in German.

Through the year. Four hours. M., T., Th., F., 3:15.

First Year.

1 and 2. Freshman German. This course is intended to continue the work begun in the secondary schools. It is conducted in German.

Study of the novel or the short story; prose composition.

Through the year. Four hours.

Section 1, M., T., W., Th., 11:15.

Section 2, M., T., Th., F., 10:15.

Second Year.

3. Sophomore German. This course is conducted entirely in German. Study of the works of Riehl, Rosegger, Saar, Storm, and others. Prose composition.

First semester. Three hours. M., T., Th., 3:15.

4. Sophomore German. This course is conducted in the same manner as 3. Study of the dramas of Freytag, Fulda, Grillparzer, Sudermann, and Wildenbruch.

Second semester. Three hours. M., T., Th., 3:15.

Third Year.

5. Lessing-Schiller. Lives and principal plays are studied. Consideration of the significance of these two dramatists in German literature. Assigned readings and reports.

First semester. Three hours. M., T., Th., 2:15.

6. Goethe's Life and Works. His plays are studied as the dramatic expression of the poet's period of Storm and Stress and of his classical period. Assigned readings from Bielschowsky's "Life of Goethe."

Second semester. Three hours. M., T., Th., 2:15.

Fourth Year.

7 and 8. Course for Teachers. This course is designed for students who are intending to teach, and is open to those who have completed 5 and 6.

Composition on assigned themes with systematic review of the grammar, one hour; survey of the history of German literature, with readings from representative works of each period, one hour.

Discussion of the new methods and their application. Members of this class are called upon to conduct recitations, and are also given opportunity to act as substitute teachers.

Through the year. Two hours. T., Th., 1:15.

GREEK.

Associate Professor Goodrich.

A. Course for Beginners. Goodwin's Grammar, Goodwin and White's Anabasis.

A year course. Four hours. M., T., W., F., 9:00.

1-2. Xenophon, Homer. Selections from the Hellenica of Xenophon; Homer's Odyssey, selected portions. Systematic review of grammar.

Through the year. Four hours. M., T., Th., F., 2:15.

3-4. Plato, Euripides, Aristophanes, Lucian. Plato's Apology and selections from other writings; Euripides, Alcestis and Iphigenia in Tauris; Aristophanes, Acharnians; selections from Lucian.

Through the year. Three hours. T., W., F., 9:00.

5-6. Thucydides, Aeschylus, Demosthenes. Thucydides, the Sicilian Expedition; Aeschylus, Agamemnon; Demosthenes, On the Crown.

(Omitted in 1914-15.)

9. **Greek Testament.** A careful study, text and interpretation of selected passages in the Greek New Testament. Prerequisite: Greek A.

Through the year. Two hours. T., Th., 1:15.

7. **Classical Literature.** A study, through English translations, of the masterpieces of Greek and Latin literature, and of the influence of the classics upon the form and content of later literature.

First semester. Three hours. M., W., F. (Omitted in 1914-15.)

HISTORY AND POLITICAL SCIENCE.

Professor Smith.

HISTORY.

6. **Mediaeval History.** This course is a survey of continental Europe from the barbarian invasions to the close of the fifteenth century. Special emphasis is laid upon the development of the Frankish power under the Merovingian rulers; the empire of Charlemagne; the rise of the papacy; feudalism; France under the Capetians; the Hohenstauffen rulers; the struggle of empire and papacy; Mohammedanism; the Crusades; monasticism; Germany and Italy in the later Middle Age; the Hundred Years' War; mediaeval culture; the rise of the towns; beginnings of the Renaissance.

This course is designed especially for freshmen.

First semester. Four hours. M., T., W., Th., 11:15.

8. **Modern History.** This course is a general survey of Europe from the close of the fifteenth century to the present day. It is designed as a continuation of Course 6.

The course lays emphasis upon the Renaissance; the Lutheran revolt; the Protestant revolt in Switzerland; the religious wars of France and the Netherlands; the Thirty Years' War; France under the Bourbons; the rise of Prussia; Russia as a European state in the modern period; the French Revolution; the Napoleonic Era; the revolutions of the nineteenth century.

This course is designed especially for freshmen.

Second semester. Four hours. M., T., W., Th., 11:15.

7a. **English Political and Constitutional History.** This course is designed as a study of the political and constitutional

History of England from the Teutonic conquest of Britain to the establishment of the Tudor dynasty.

This course with 7b constitutes a year course.

Prerequisite: Courses 6 and 8.

Not open to freshmen.

First semester. Four hours. (Omitted in 1914-15.)

7b. English Political and Constitutional History. This course is a continuation of Course 7a. It embraces a study of the political and the constitutional history of England from the accession of the Tudors.

Prerequisite: Course 7a.

Second semester. Four hours. (Omitted in 1914-15.)

12a. American Constitutional History. A lecture course developing, in the colonial period, the background of the Constitution, and the history of the Constitutional Convention. No text; outside reading of 125 pages per week.

Prerequisite: Sixteen hours in the department.

First semester. Three hours. M., Th., F., 2:15.

12b. American Constitutional History. Lectures and reports, treating special phases of United States history from the adoption of the Constitution to the present day.

Prerequisite: Course 12a.

Second semester. Three hours. M., Th., F., 2:15.

15. Europe in the 18th and 19th Centuries. The object of this course is to fill in the outline acquired in History 8, by a thorough study of the great developments of the European Powers, during the later centuries, in order to acquire a background adequate to a comprehensive understanding of current European conditions.

Prerequisite: Courses 6 and 8.

Second semester. Four hours. M., T., Th., F., 9:00.

20. Social History of the American Colonies.

Prerequisite: History 12a.

First semester. Two hours. T., F., 3:15.

21. The South and the West in American History.

Prerequisite: History 12a.

Second semester. Two hours. T., F., 3:15.

- 40. Course for Teachers.** Actual practice work in conducting history classes; bibliographical study; special reviews. Open only to seniors who intend to teach. Through the year. Two hours. To be arranged.

POLITICAL SCIENCE.

- 18. Political Science 1.** This course embraces a study of the general principles of political science; its nature, scope, and methods; the essential constituent elements of the state; the functions and sphere of the state; citizenship and nationality; the electorate, etc.

Not open to freshmen.

First semester. Four hours. M., T., Th., F., 9:00.

- 25. International Law and Diplomatic History of the United States.** Using Wilson's "International Law" as a text, application will be made, whenever possible, of the principles as they occur in American diplomatic history. Moore's "Digest of International Law" will be used constantly in conjunction with the text.

The instructor's approval must be secured before registration.

Through the year. Three hours. (Omitted in 1914-15.)

- 30. American Government and Politics.** Review of the federal executive legislature, and judiciary; and study of present tendencies in federal and state government. Concurrent study of political parties.

Prerequisite: Courses 12a, 12b, and 18.

First semester. Two hours. (Omitted in 1914-15.)

- 35. Municipal Government.** Problems of the modern city. Attempted solutions by European cities. Experiments and tendencies in America.

The instructor's approval must be secured before registration.

Second semester. Two hours. (Omitted in 1914-15.)

LATIN.

Professor Erickson.

Associate Professor Goodrich.

- A. Course for Beginners.** Special attention is given to the presentation of the subject so that a fairly comprehensive knowledge of Latin may be acquired by those who begin the

study of it in the freshman year. This course meets the entrance requirements in foreign language, or may be counted for credit toward graduation.

Through the year. Four hours. M., T., W., F., 10:15.

B. Cicero-Virgil. This course follows Course A, or may be taken by students who have had two years Latin in the high school.

Through the year. Four hours.

1. **Livy.** Selections from Livy (Burton). **Cicero, De Senectute.** Prose Composition.

First semester. Four hours. M., T., W., Th., 11:15.

2. **Horace.** Odes and Epodes.

Second semester. Four hours. M., T., W., Th., 11:15.

3. **Latin Literature.** Plautus, Captivi, with introductory work in early Latin; selections from the elegiac poets; assigned reading on the literature of the Republic.

First semester. Three hours. M., W., F., 8:00.

4. **Latin Literature.** Tacitus, Germania and Agricola. Rapid reading of some of the letters of Pliny, and some of the epigrams of Martial. Assigned reading on the literature of the early empire.

Second semester. Three hours. M., W., F., 8:00.

5. **Lucretius.** De Rerum Natura.

Cicero, Tusculan Disputations, Book I for rapid reading.

First semester. Three hours. M., T., Th., 10:15.

7. **Roman Satire.** A study of Juvenal and Horace, and of the history of Roman Satire.

First semester. Three hours. (Omitted in 1914-15.)

8. **Roman Comedy.** Selected plays of Plautus and Terence. A reading course.

Second semester. Three hours. (Omitted in 1914-15.)

9. **The Reign of Tiberius.** Tacitus' Annals; Suetonius, Tiberius, and other writings bearing on the history and literature of the period.

Second semester. Three hours. M., T., Th., 10:15.

10. **Virgil.** The class will read the Eclogues, parts of the Georgics, and Books VII-XII of the Aeneid. Study of Sources, methods and literary influence of Virgil.

Second semester. Two hours. (Omitted in 1914-15.)

12. **Course for Teachers.** About one half of the time will be given to a study of the more important phases of Latin grammar and to prose composition. Part of the authors usually read in the high school course will be studied.

Discussion of problems connected with the teaching of Latin in secondary schools.

Through the year. Three hours. (Omitted in 1914-15.)

13. **Journal Club.** Reports on books and articles in the current journals, and discussion of general topics pertaining to the classics.

Through the year. One hour. Time to be arranged.

See also the course in Classical Literature, Greek 7; and the course in Ancient History, History 5.

LIBRARY METHODS.

Professor Jillson.

1. **General Course.** The course consists of lectures on library history, classification, accessioning, cataloguing, reference work, bibliographic methods, choice of books, ordering, binding and repair, and loan procedure.

Through the year. Three hours. (Given in 1913-14.)

MATHEMATICS.

Professor Krathwohl.

1. **Algebra.** The course begins with a brief review of the topics covered by the college entrance requirements in algebra. The remainder of the course is given to the study of the properties of quadratic equations, with special emphasis upon their graphical interpretation; mathematical induction; variation; progressions; permutations and combinations; binomial theorem; the general theory of equations with one unknown; the elements of determinants; complex numbers and undetermined coefficients.

First semester. Three hours. M., W., F., 8:00.

2. Plane Trigonometry. This course covers the elementary theory of trigonometric functions and the elements of logarithms.

Second semester. Three hours. M., W., F., 8:00.

3. Mechanical Drawing. Use of instruments; graphical solution of conic sections; orthographic projection; isometric projection; development of surfaces; intersection of surfaces; working drawings; lettering; tracing.

Through the year. Three hours. M., T., Th., 2:15-4:15.

7. Descriptive Geometry. Problems relating to the point, line and plane; revolution and counter-revolution of objects; curved lines and surfaces; tangent planes; plane sections and development of surfaces.

One recitation and three hours' drawing.

Prerequisite: Mathematics 3.

Through the year. Two hours. M., 2:15; T., 2:15-4:15.

8. Analytical Geometry. The point; loci; the straight line; transformation of co-ordinates; the circle; conic sections including a discussion of the general equation of the second degree; transcendental curves; parametric equations. A brief course on the Analytical Geometry of three dimensions.

Prerequisite: Mathematics 1 and 2.

Through the year. Two hours. T., Th., 10:15.

9. Essentials of Calculus. Rates and limits; rules for differentiation; tangents and normals; maxima and minima; points of inflection; theorems of mean value; Taylor's theorem; curvature; definite and indefinite integrals; rules for integration; applications to finding volumes, center of gravity, moments of inertia, etc.

The traditional division of the Calculus into Differential Calculus and Integral Calculus has been largely disregarded in this course, but the principles of each are developed together. By this arrangement it is hoped the student will obtain a better grasp on the subject as a whole. The course is designed to give the student the necessary foundation in the fundamentals of the subject, and so arranged that he may be led by easy steps into simple applications of the Calculus to physical and engineering phenomena.

Prerequisite: Mathematics 8. Must be taken with this course, if not previously taken.

Through the year. Three hours. M., W., F., 10:15.

10. Advanced Calculus. This course supplements Mathematics 6, and is devoted to the more advanced and difficult topics of the subject. Special attention is given to such topics as infinitesimals and differentials; partial differentiation; definite integrals over curves, surfaces and volumes; maxima and minima of two or more variables.

Prerequisite: Mathematics 9.

First semester. Three hours. (Omitted in 1914-15.)

11. Differential Equations. Derivation of differential equations; differential equations of first order and first degree; differential equations of first order and higher degrees; singular solutions; linear differential equations; special forms of differential equations of higher orders; simultaneous, differential equations; geometric and physical applications; Fourier series; infinite series.

Prerequisite: Mathematics 9.

Second semester. Three hours. (Omitted in 1914-15.)

12. Theoretical Mechanics. Statics; motion of a particle under constant or varying forces; work and energy; motion of systems of particles under constant or varying forces; motion of rigid bodies.

Prerequisite: Mathematics 9.

Through the year. Three hours. M., W., F., 9:00.

MUSIC.

Professor Bintliff.

Courses in the Theory and History of Music as outlined in detail in the pages devoted to the School of Music will be credited as college electives. The maximum amount of credit allowed toward the degree of Bachelor of Arts will be twelve hours.

PHILOSOPHY.

Professor Mutch.

The attempt is made in these courses to help the student toward a believable and livable philosophy of his own. There is a craving for something of this kind in many minds, and it is conceived to be one of the functions of a college education to satisfy this desire. Not a few students have found this desire gratified in these courses, at the same time that their

college studies and the whole thought and conduct of life have been unified and vitalized. These are not merely preprofessional courses, but they are fundamental to a liberal education such as every person needs to square himself with the world.

1. Method of Nature. A study of the laws and forces operative in the organic and inorganic world, for the purpose of establishing a few fundamental concepts of philosophy, and giving the student practice in thinking, reading and discussing philosophical themes. Much information is gained about facts and theories of the material world. A syllabus of topics is followed in class discussions, and extensive library readings are required.

First semester. Four hours. T., W., Th., F., 9:00.

2. Philosophy of Culture. After a brief résumé of Course 1, for the benefit of those who have not taken it, the same method is continued in the field of human culture, as seen in society and history. While no attempt is made to cover the whole ground of human culture, there is a study of the laws and principles which govern progress, the obstacles to be overcome, and the ideals and factors of real culture.

First semester. Four hours. (Omitted in 1914-15.)

3. Types of Modern Thought. This is a course in the history of modern philosophy, with special reference to the comparison of different types: Monism, Pluralism, Materialism, Idealism, Pragmatism, Vitalism, etc. A text-book such as Calkins' "Persistent Problems of Philosophy" is used, and the students are expected to read several works of the philosophers which they study.

Second semester. Four hours. T., W., Th., F., 9:00.

4. Reality and Knowledge. A regular course in Metaphysics. Paulsen's "Introduction to Philosophy" is used as a text-book, together with other reading. The aim is to help the student to work out for himself a satisfying concept of the fundamental things in the world and in his own life.

Second semester. Four hours. (Omitted in 1914-15.)

13. Logic. A study of the forms and laws of exact reasoning, with a modern text-book on deductive and inductive Logic.

First semester. Two hours. (Oimtted in 1914-15.)

PHYSICS.

Professor Barber.

Mr. Cragoe.

Physics A-B. An introductory course in physics for students who wish to become acquainted with the results, methods, and spirit of the science, whether they intend to pursue its study further, or wish an elementary knowledge of physics only as a matter of general information. This course is arranged primarily for students who do not present elementary physics for entrance.

Text-book: "First Course in Physics," Millikan and Gale.
Through the year. Four hours. Arranged on consultation.

General Physics. Fundamental principles of physical science for those contemplating the study of any pure science, or engineering, or medicine, or teaching, are presented mainly from the experimental standpoint. The instruction in lectures, recitations, quizzes, problem papers and private readings is entirely concerned with the principles studied in the laboratory and the practical applications of the same. In this manner, a thorough grasp of foundation principles is obtained, by continually connecting theory and experiment.

The laboratory work is exclusively quantitative, the aim being to present the subject as a science of exact measurement. The apparatus is all new, and much of it but recently designed for this particular line of work. With it, the student is put in touch with the methods and instruments of modern physical investigation.

Prerequisite: Trigonometry.

General reference text: "Physics," Watson, or "College Physics," Reed and Guthe.

1. Mechanics, Molecular Physics and Heat.

Text-book: "Mechanics, Molecular Physics and Heat," Millikan.

First semester. Five hours. T., Th., 9:00; Laboratory, M., W., F., 8:00-10:00.

Second division arranged on consultation.

2. Electricity, Magnetism, Sound and Light.

Text-book: "Electricity, Sound and Light," Millikan and Mills.

Second semester. Five hours as above.

3. Advanced Course in Light. Geometrical and Physical Optics will be treated in detail. Under the former head, some of the most important optical instruments will be studied; under the latter, the wave theory of light will be developed.

This course aims to be a practical and useful study of optics, as well as to give a careful scientific explanation of many optical phenomena of common experience. Spectroscopy, diffraction, dispersion, interference, and polarization will be discussed thoroughly in lecture and recitation, and this discussion followed by accurate measurements in the laboratory, which is thoroughly equipped for this work.

Prerequisite: Courses 1 and 2. Calculus is advised but not required.

Text-book: "Light for Students," Edser.

Reference text: "The Theory of Light," Preston.

First semester. Four hours. T., Th., 11:15; Laboratory, T. Th., 1:15-3:15; or S., 8:00-12:00.

4. Advanced Course in Heat and Molecular Physics. The aim of this course is to give a comprehensive view of the science of heat in its theoretical and experimental aspects. It has been found to be of especial value as an introduction to the graduate courses in physical chemistry and mechanical engineering as offered in the universities and technical schools. The laboratory exercises consist of exact measurements in mercurial and air thermometry, calorimetry, mechanical equivalent of heat, coefficients of expansion and conductivity, vapor pressures and densities, freezing and boiling points, latent and specific heats, hygrometry and pyrometry. Particular attention will be given to the errors peculiar to heat measurements and the elimination of the same.

Prerequisite: Courses 1 and 2.

Text-books: "Heat for Advanced Students," Edser. Reference text: "Theory of Heat," Preston.

Second semester. Four hours. T., Th., 11:15; Laboratory, T. Th., 1:15-3:15; or S., 8:00-12:00.

5. Mathematical Theory of Electricity and Magnetism. This course discusses the fundamental principles of the mathematical theory of electricity and magnetism and their more important applications.

Prerequisite: Courses 1, 2, and Calculus.

Course 6a is designed to accompany this course.

Text-book: Foster and Porter's "Electricity and Magnetism" founded on Joubert's "Traité Élémentaire d'Électricité."

First semester. Three hours. M., W., F., 11:15.

6a and 6b. Electrical Measurements. A laboratory course of systematic instruction in precise electrical measurements for students of Physics and Electrical Engineering.

Prerequisite: Courses 1, 2, and Calculus.

Text-books: "Electrical Measurements," Carhart and Paterson; "Practical Electrical Testing in Physics and Electrical Engineering," Parr.

Through the year. Two hours. Laboratory periods arranged on consultation.

7. Electron Theory. This course will be concerned with the development of the so-called "machinery" of the electron theory. Particular attention will be given to the very recent literature of the subject contained in the scientific magazines. Many of the facts and theories of the "Kinetic Theory of Gases" will be shown to have a physical as well as a mathematical basis.

Prerequisite: Courses 1, 2 and 5.

Second semester. Three hours. M., W., F., 11:15.

8a and 8b. Colloquium. At the weekly meetings the students present before the class, for informal discussion, subjects not treated in the class-room, and reviews of articles appearing in the scientific journals. The course also aims to teach the student the efficient use of a reference library, and of the various indexes and catalogues. Each student is required to prepare a bibliography of some one physical subject. The work of the colloquium has an excellent effect in training students to present their ideas in a systematic manner before an auditory.

Open only to students who take their major or minor in Physics.

Through the year. One hour. Arranged on consultation.

9. History of Physics. A course devoted to readings and discussions, in order that the student may become acquainted with the historical development of Physics.

Open only to juniors and seniors in Physics.

Text-book: "History of Physics," Cajori.

Reference text: "History of the Inductive Science," Whewell.

Second semester. One hour. Arranged on consultation. This course will alternate with 8b.

10. **Course for Teachers.** A course designed especially to meet the needs of students who expect to teach Physics in the secondary schools.

Prerequisite: Courses 1, 2, 3, and 4.

Second semester. Two hours. Arranged on consultation.

PUBLIC SPEAKING.

Mr. ———.

7. **The Forms of Public Address.** A study of the rhetoric, philosophy, psychology, and sociology of oratory, with special attention to the college oration. Outside reading, written address or college oration required. Lectures and conferences.

First semester. Two hours. M., W., 9:00.

8. **The Literature of Oratory.** A reading course in the masterpieces of oratory. Speeches of Burke, Henry, Webster, Lincoln and others, will be studied and analyzed in class. A schedule of outside reading will be followed. Theme work required.

Second semester. Two hours. M., W., 9:00.

9. **Argumentation and Debating.** A course in the study of argumentation and in the practice of debating. One hour a week will be given to text-book and lecture work, or to the study of theory and methods. Two consecutive hours will be given to practice debating once each week. The class is limited to sixteen, and will not be given for less than ten.

Through the year. W.

10. **Public Speaking.** An elementary course in expression, designed for those who wish to study for greater ease and power in platform address. Committed, extempore, and impromptu work will be required. Some attention will be given to the training of the voice, proper breathing, and exercise. To gain the ability "to think on one's feet" will be the main object of the course.

Through the year. Two hours. T., F., 3:15.

The College Awards

DEGREES.

Bachelor of Arts. The degree of Bachelor of Arts is conferred by the Board of Trustees, after recommendation by the Faculty, upon those candidates who have completed the collegiate requirements. These are as follows: A total credit of one hundred and twenty semester hours in the college courses; at least 124 honor credits, or an average mark in all subjects of C or higher; an acceptable thesis upon some theme related to the major subject of his course, or, as a substitute for the thesis, an advanced course during the senior year. The time required for the fulfillment of these conditions is usually four years.

Master of Arts. The degree of Master of Arts may be conferred upon any graduate of this College, or of any college offering substantially equivalent courses, who shall have completed an approved course of non-professional study equivalent to an additional year of college work, one-half of which, at least, is in a single department or in closely related departments. This work may be done during one year in residence at the College, or in the case of graduates of this College, during two years of non-residence. Examinations are required in all work of the approved course, and a satisfactory thesis upon some phase of the course must be presented at least one month before the close of the college year. Fees for all special examinations and the usual fee for the diploma are required.

PRIZES AND HONORS.

Mrs. John James English Prize Fund. From the interest of a fund of \$1,500 given by Mrs. John James, of Boston, for the encouragement of English Composition in the College, the following prizes are offered for this year.

Freshman Composition. For general ability in composition, as indicated partly by the class record in English C1, and partly by a final test, five prizes are offered: one of \$15.00, one of \$10.00, and three of \$5.00 each.

Oration. Two prizes will be awarded to the orations which are adjudged the most effective. The literary qualities shall, together with the thought or subject matter, be the basis for judgment. The public delivery of the oration is not required. First prize \$15.00, second prize \$10.00.

Essay. Two prizes will be awarded for essays on assigned subjects. They will be awarded to the two essays which show the best knowledge of the subject, and reveal the clearest, most forcible English in presenting it. First prize \$15.00, second prize \$10.00.

The subjects for the year 1913-14 are:

The Place of the College in American Life.

The Influence of Italian Immigration on American Life.

Spenser, the Poets' Poet.

The Permanency of National Life as Affected by Intoxicants.

American Dialect Poetry.

County and Township Government.

If less than five orations or five essays are submitted, only one prize, the first, will be awarded. No prize will be given for an oration or an essay not in itself creditable. No oration that has won a place in any outside contest, or that has been entered in any outside contest, will be accepted for this competition. Orations that are entered in the home contest, but that do not get first or second place, will be accepted. Any student in any of the College classes may enter either or both of these contests. The essays and orations are due on or before May 15th.

Class of 1891 Prize for Oratory. A silver cup, valued at \$65, upon which shall be inscribed from year to year, between 1906 and 1915, the names of the winners in the home oratorical contest. The cup is to be the property of the College, and will be kept on exhibition in some suitable place.

Oratory. A special prize will be offered this year to those who enter the Intercollegiate Contest. To the student who wins first place with at least five contestants in the home contest and who appears in the State Contest, \$25.00. To the student who wins second place in the home contest and who appears in the State Contest, \$15.00. To the student who will take first place in the State Contest \$50.00, and to the student who will take second place in the State Contest \$25.00.

J. T. Lewis Prize Fund. This was established by Hon. J. T. Lewis, of Columbus. The annual income of a fund of \$200 will be awarded to the student who prepares the best set of notes and drawings on the biological work of the freshman year. It will not be granted for inferior work.

Class of 1896 Memorial Prize Fund. The income, about \$20.00, of the Memorial Prize Fund of the class of 1896, will be awarded the successful contestant in a declamatory contest between members of the junior class each year.

Prize Scholarship. To encourage students of special promise in graduate study, a friend of the College offers, as a prize, one year's tuition in the graduate school of either the University of Chicago or the University of Wisconsin. This prize is open to students of History, Economics, Law, Language and Literature, Philosophy, or Education. The award is made by the faculty to the member of the senior class who shows the greatest proficiency in the studies of the undergraduate course and the best preparation for graduate study.

Department Fellowships. The head of each department has the privilege of recommending, for ratification by a vote of the faculty, one advanced student of high standing as Fellow in the department.

The Rhodes Scholarships. In order to keep this well-known bequest before the minds of present or prospective students, it is briefly mentioned here. Circulars of full information can be obtained at the registrar's office. Any male student, who is a citizen of the United States and unmarried, not less than nineteen nor more than twenty-four years of age, and who has reached the end of his sophomore year of study, may be a candidate for one of the Wisconsin scholarships. This insures to the winning contestants among the schools of the State a three-year residence in Oxford University, England.

All competitors must be prepared to take an examination in the following subjects: Arithmetic, the elements of Algebra or the elements of Geometry, Greek and Latin Grammar, translation from English into Latin, one Greek and one Latin book from authors such as Caesar, Cicero, Livy, Horace, Virgil, Homer, Xenophon, Plato, Sophocles, Euripides, and Demosthenes.

University Fellowship. The University of Wisconsin, through its President, has extended to Ripon College an invitation to appoint one of its graduates each year to a Fellowship in the University. The value of this Fellowship is \$225 a year.

The College Administration

THE COLLEGE YEAR.

The College year is divided into semesters. For the coming year the first semester begins on September 15, 1914; the second on February 1, 1915. A number of courses, complete in themselves, begin in the second semester. Students who enter College at that time, will be able to avail themselves of such courses.

Besides the usual legal holidays, there are two vacations during the year, one at Christmas and one at Easter. The Easter vacation for 1914 begins on Friday, March 20, at 3:15 p. m., and ends at noon Monday, March 30. The Christmas vacation for 1914 begins on Wednesday, December 23, at 3:15 p. m., and ends at 8:00 a. m. Tuesday, January 5, 1915. The Thanksgiving recess begins at noon on the Wednesday preceding Thanksgiving day, and ends at noon on the Monday following.

GOVERNMENT.

The College has few rules governing the conduct of students. In general it is expected that they will conduct themselves in an orderly way, with due regard for the rights of others, and in such manner as will conduce to best work in College.

Students are forbidden to smoke on the campus or athletic field. Visiting saloons is considered sufficient cause for dismissal from College.

In matters of general order or common interest, the students are represented by an Advisory Council, which meets with the college officers of discipline. This Council consists of five students, who are selected by the faculty from the whole student body.

The policy of the College toward student activities is to put each under a Board of Control, consisting of a representative of the Board of Trustees, two members of the faculty, and two students. This Board has general oversight of the finances and policy of the activity which it represents. All details, however, are managed by the student officers. This method is employed in the control of the Dormitories, Commons, Oratory and Debate, and Athletics.

COLLEGE EXERCISES.

Class Records.

Examinations are held at the end of each semester, or at intervals during the semester, in all courses. At the end of each semester the marks are handed in, and the record for that semester is closed.

Class Standings are indicated by letters. A, B, C, D, are passing. If a student fails in a course, credit can be secured only by repeating the course in class. If a student is conditioned in a subject, the condition must be removed by examination taken on the day appointed for this purpose. The date for removing conditions of the first semester is the last Wednesday in February, and for condition of the second semester, the first Wednesday in October. A general average of C in all subjects is required.

Reports of standings are sent at the close of each semester to the students' parents.

Absence from Class or Chapel.

Regular Attendance is expected on all class and laboratory exercises and on Chapel and Vesper services. If the absences in a given course exceed by one the number of semester credits in that course, the student is immediately dropped from that class, and can return only after being reinstated by the Dean of the College, with the concurrence of the Professor in charge. After being reinstated, a student is dropped for an additional absence. Chapel absences to the number of fifteen are permitted during a semester, a Vesper service counting as four chapel services. For each absence in addition to the fifteen, two honor credits will be deducted from the student's honor credits for the semester.

If, for any good reason, a student is excused from chapel, he will be required to make ten honor credits per semester in addition to the number required of all students.

A student who is absent from the last recitation period preceding the Christmas or Easter vacation, or the Thanksgiving recess, or from the first recitation following such vacations, will not be allowed to take the regular final examination in the subject missed, but may take it when the next regular examination in the subject is given.

The College Life

STUDENT FELLOWSHIP.

One of the inherent advantages of colleges of the size of Ripon is that students are brought into closer relations with their instructors, and into sympathy with one another. The College is a social democracy. In class-room, at the commons, in the dormitories, and on the campus, the equal rights and equal privileges of all students are fully recognized. Class or college functions through the year, sometimes initiated by the students, sometimes by members of the faculty, contribute to the social enjoyment of the students.

RELIGIOUS LIFE.

The College is distinctly Christian, and regards the development of Christian character as its greatest work. It is unsectarian in its management. On entrance, the student names the church of his preference. Lists are sent to the pastors of these churches. Every student is given a definite personal welcome in the church of his choice.

Once each month a special Vesper Service, under college auspices, is held in the Congregational Church. This is made possible by the courtesy of the Church, and the co-operation of the pastor. Often an exchange is effected with a minister from Wisconsin or from a neighboring state, who addresses the students on some vital and practical theme.

At other times a layman, prominent in religious work, is secured. The Chapel Service is held four days in each week. Attendance at the Chapel Service and at the monthly Vesper Service is required. All other services are voluntary.

The prayer meeting on Tuesday evening, the Association meetings on Sunday and Thursday afternoons, and the Bible study class, are under the management of the Christian Associations. These associations send delegates to the various state and national conferences. At the beginning of the college year members of the associations meet all trains, and welcome new students.

THE YOUNG MEN'S CHRISTIAN ASSOCIATION.

During the formative period of college life there is great necessity for symmetrical development, for a balancing of intellectual with spiritual growth. The College Y. M. C. A. recognized this necessity, and organized for the purpose of aiding this harmonious development. In opening its doors to all young men of the College, the association aims to extend its sphere of influence as far as possible. Although distinctly a student organization, the association has the active support of the faculty, some of them being members, and many leading in the meetings. In order to keep in touch with the larger movement, the College Y. M. C. A. aims to be represented regularly at the state conventions, and also at the yearly conference of college men held at Lake Geneva.

THE YOUNG WOMEN'S CHRISTIAN ASSOCIATION.

The object of the Young Women's Christian Association is the development of Christian character in its members, and the prosecution of active Christian work, especially among the young women of the institution. The active membership of the association consists of women connected with the College, who are members of the Christian churches. Any woman in the College may become an associate member. The association is affiliated with the international organization.

THE ORATORICAL UNION.

The Oratorical Union, under its present constitution, controls oratory, debate, and the "College Days." The Union holds membership in the Wisconsin Intercollegiate Oratorical Association, and also in the Interstate Oratorical Association. Several intercollegiate debates are held each year.

ATHLETICS AND PHYSICAL TRAINING.

The College encourages outdoor athletic games among the students. To encourage as many as possible to participate, interclass and dormitory games are arranged. This College is a member of the Wisconsin Intercollegiate Athletic Association, and all games are played under its rules.

The College is fortunate in possessing an excellent athletic field. Recently a quarter-mile cinder-track has been built on the field. There is also ample space in the field for football and baseball.

The Indoor Athletic Field makes it possible to continue such athletic training and games through the year.

By placing the gymnasium work and the training of all teams under the care of a thoroughly-trained specialist, who is a regular member of the college faculty, physical training has been developed to a high degree of efficiency, under the best possible conditions.

General supervision of all athletic interest of the College is now vested in a committee, consisting of the Dean of the College, the Director of Athletics, a member of the Board of Trustees, and the President and Secretary of The Student Athletic Association. The Student Athletic Association includes all the students in its membership.

This committee formulates all rules, appoints managers for the various teams, and is responsible for the athletic policy of the College. All contracts for games are made by authority of the committee, witnessed by the signature of the Dean.

RIPON COLLEGE GLEE CLUB.

The Ripon College Glee Club is in charge of Professor Elizabeth Battle Bintliff, Director of the School of Music. This club has a two weeks' concert tour each year about the time of the Easter recess.

The College Band furnishes music for athletic contests and other events, such as the "campus sings," etc. Its membership is about twenty. The band affords a means of training and of pleasant recreation for those who play band instruments.

THE DINING ASSOCIATION.

This is a co-operative association of students, for the purpose of furnishing board of good quality at low cost. The association occupies the beautiful Alumni Commons in West Building—quarters well equipped in every particular for the use of the association. The college authorities audit the books, and give general supervision to its affairs, but the details of its management are in the hands of the Students' Co-operative Dining Association.

THE LEAGUE.

This is an organization of the young women who live outside of Bartlett Cottage. Like the organization within Bartlett Cottage, it is intended for unifying the varied yet common interests of its members. A rest-room on the third floor of Ingram Hall has been furnished for them, where it is possible to hold meetings, or to spend a study hour between classes.

College Publications

THE BULLETIN.

The Ripon College Bulletin is issued six times per year—in January, March, May, July, September, and November. The January issue is the regular catalogue number.

COLLEGE DAYS.

College Days is a weekly publication. It is issued by a board of editors elected by the student body. It is now in its forty-seventh year. It aims to record the various phases of campus life. To this end, it occasionally publishes articles by professors and students, either the records of personal experiences or the results of special investigation. It has aimed to keep in touch with sister colleges, has noted the goings and comings of alumni, and has endeavored to record, in lighter vein, the pleasures and pastimes of the students.

THE CRIMSON.

The Junior Class publishes a Ripon College Annual known as The Crimson. It is a book of college life, dealing, among other things, with the faculty, class and student organizations, social life, and athletics.

Student Expenses

The charge of the student is but a small part of the cost to the College. The balance of the cost is met by the income of the endowment fund, and by gifts from trustees and other friends of the College.

Tuition, per semester.....	\$10.00
Incidental Fee, per semester.....	22.50
Laboratory Fees, per semester—	
Anatomy, Advanced Botany, Histology.....	3.00
Archaeology	1.50
Bacteriology and Embryology.....	7.50
Chemistry, four-hour course.....	6.00
Breakage Deposit in Chemistry.....	3.00
Physics Laboratory, per unit hour.....	1.50
Physiology	1.50

For the year 1913-14, at the request of the students, a special fee of one dollar and twenty-five cents is charged for "The Crimson."

ROOM RENT.

Smith Hall, Dormitory for men, with steam heat, hot and cold water, furnished rooms, two men in each room.	
Rooms number 102, 103, 105, 106, 201, 203, 205, 300, 301, 303, 305, per semester.....	\$20.00
Rooms number 101, 107, 202, 206, 207, 302, 306, 307, per semester.....	22.50
Rooms number 100, 108, 200, 208, 308, per semester	25.00
West College, Dormitory for men, with steam heat, hot and cold water, furnished rooms, two men in each room, per semester	20.00
Dawes Cottage, Dormitory for men, with steam heat, hot and cold water, furnished rooms, two men in each room, per semester	18.00
Bartlett Cottage, Dormitory for women, with steam heat, hot and cold water, furnished rooms, electric lights in each room, per semester.....	24.00

Dormitory rooms are furnished with all necessary heavy furnishings. Students will bring their own bedding, pillows, rug for the floor, and such ornaments as they desire for their rooms. All buildings are heated with steam, furnished with hot and cold water, gas and electricity. Price of room rent in Smith Hall does not include cost of light in the rooms.

At the beginning of the college year, students are required to settle their term bills at the time of registration; for the second semester, a payment of at least five dollars on account is required before registration, and the balance of the term bill must be paid or payment satisfactorily arranged before entering classes.

The five dollars paid on the incidental fee will not be refunded under any circumstances. If a student leaves college for good reasons before the middle of a semester, one half his college bills will be refunded. No refund will be made to a student who remains in attendance more than half a semester.

Room rent and laboratory fees cannot be refunded to students who leave dormitories or laboratory classes during the semester.

All indebtedness to the College must be paid or satisfactorily arranged before a diploma or certificate of standings will be given.

The total cost for the student varies. The minimum expense will be within the reach of students of limited resources, while others may easily make provision for themselves in accordance with their means.

BOARD.

Board is furnished at the College Commons in the West Building. During the present year it has cost \$3.25 a week.

There are other boarding clubs and private houses that will furnish board to students at reasonable prices.

STUDENT AID.

A standing committee of the Y. M. C. A. acts as an employment bureau, and is always ready to assist students desiring employment. Faithful, worthy students, who are willing to work, need not abandon their course of study for lack of money. Many of the most successful graduates of the College have helped themselves in this way.

There are a few scholarships to be granted to worthy students.

SPECIAL FUNDS.

The College has available several funds for use as indicated below. Anyone desiring to be a candidate for the benefits of any of these funds should write to the Registrar for blanks to make application therefor. These applications will be considered by the faculty committee on scholarships, and the benefits will be distributed where they will appear to accomplish the greatest good.

Rufus Dodge Fund. The late Rufus Dodge, of Beaver Dam, left the College a legacy of \$9,000 as a permanent fund to aid young women of limited means in getting an education. The interest of this fund is available each year for distribution among such students for this purpose, according to their need.

Philo Sherman Bennett Scholarship Loan Fund. Mr. Philo S. Bennett, of New Haven, Connecticut, left \$10,000 in his will to Wm. J. Bryan, as trustee, to divide among several colleges, in his discretion, as a fund to help worthy young men. \$500 of this fund was given in June, 1905, to Ripon College, the conditions being that the same be invested as a perpetual fund, the income only to be loaned to worthy young men in need, who shall be honor bound to return the loan; and when so repaid, it shall be re-loaned in the same manner.

The principal fund is known as the Philo Sherman Bennett Fund. The income from this fund, the amount which is available for student use, is called the William Jennings Bryan, Trustee, Fund.

Sumner T. Bartlett Scholarship Fund. The sum of \$1,000 was given by Mrs. Lucy Bartlett, of Oshkosh, Wisconsin, for a permanent scholarship. The condition of the scholarship is that one student at a time, forever, shall be admitted to Ripon College free of tuition, such student to be designated by the college faculty, and to be one studying for the gospel ministry or for special missionary work.

Rev. E. W. Cook Scholarship Fund. The sum of \$500 was given by the Rev. E. W. Cook, of Ripon, for the purchase of a scholarship. Free tuition is to be granted to one student at a time from the income of this fund, in perpetuity.

O. W. Van Vechtin Student Loan Fund. This was the gift of O. W. Van Vechtin, who presented to the President \$100 as a loan fund, to be under the control of the President, and to be loaned to worthy students, and to draw no interest while the

borrowers are in college, but from date of leaving college to draw interest at the legal rate. The interest accruing may be added to the fund or given to students, at the President's discretion.

David Whitcomb Scholarship Fund. \$1,000 was given by David Whitcomb, of Worcester, Massachusetts, for the purchase of a permanent scholarship, the income of which fund is to be used annually to aid needy and worthy students. By resolution of the Board of Trustees, June 20, 1885, the income is appropriated to payment of necessary term bills of young men who shall be nominated by the faculty for such credit, the sons of missionaries and ministers to be preferred, and the amount of appropriation to each pupil to be determined by the faculty.

Alumni Association, 1868, M. W. Pinkerton Memorial Fund. This fund was collected by the Alumni Association as a memorial to M. W. Pinkerton, of the class of 1868. Mr. Pinkerton gave his life to the cause of Missions in connection with the work of the American Board in Africa. Up to this time, the fund has been invested for the Association by the College Treasurer, who has had no responsibility concerning it, except that of collecting the interest, and paying it to the Treasurer of the Association.

At the annual meeting of the Association in June, 1910, by a formal vote, the fund was turned over to the College, to be used according to the general intent of the givers, but without further responsibility to the Association.

Class of 1898 Harry D. Clark Memorial Fund. This is a fund credited to the class of 1898, as a memorial to their deceased classmate Harry D. Clark. The interest is to be used for the purchase of books for the library.

Class of 1901 Owen C. Rowlands Memorial Art Fund. The class of 1901 has provided a special fund, the interest of which is to be used for art decorations. It is a memorial to Owen C. Rowlands, a former member of the class, now deceased.

COMMITTEE ON RECOMMENDATIONS.

The committee on recommendations renders assistance to graduates seeking employment, and to employers. No charge is made for this service, and the committee makes special effort to find the position for which the applicant is prepared. School boards and other employing college graduates can depend upon the faithfulness of the recommendations given.

The call for college graduates as teachers is increasing each year. All graduates and friends of the College are asked to co-operate with this committee by notifying it of vacancies.

The School of Music

FACULTY.

SILAS EVANS, D. D., LL. D.
President.

ELIZABETH BATTLE BINTLIFF, A. M.
Professor of Music and Director of the School.

ESTELLA HALL READE,
Instructor in Vocal Music.
Teacher of Public School Music Methods.

CORA LAVERNE HOPPOUGH,
Teacher of Piano, Theory, Musical History and Appreciation.

LOUISE STANTON THOMAS,
Teacher of Violin and Mandolin.

CORDELIA E. KENT, Mus. B.
Teacher of Pipe Organ and Piano.

The School of Music offers extended courses in the practical and theoretical study of music, designing to fit students for the professional musical life. The special purpose of instruction is to produce musicians who shall combine sound intellectual training with symmetrical development of the musical faculties. To this end all its work is planned. The regular courses are for those who wish to complete work leading to graduation; but those who wish to pursue only partial courses are also admitted. Preparatory courses have been arranged for piano, violin, and voice, so that the student who is only a beginner may find opportunity for study. The emphasis will be placed on thoroughness of work, whether in the elementary or in the advanced grade.

COURSES OF STUDY.

The following outlines of courses of study in the several departments of the School of Music may be varied to meet the needs of individual students. ,

PIANOFORTE

Preparatory Course.

Studies in position and touch. Elementary technic. Major and minor scales in slow practice. Etudes by Burgmüller, Brünner, Duvernoy, Heller, Lecoupey, Loeschhorn, Schytte. Sonatinas by Clementi, Kuhlau, Reinecke, and others. Pieces to suit the grade.

First Year.

Mason Technic, major and minor scales and arpeggios. Etudes by Loeschhorn, Czerny, Schytte, Heller, Bach, Little Preludes and Fugues; Sonatas by Haydn, Mozart. Modern pieces. Memorizing.

Second Year.

Mason Technic. Etudes by Cramer, Turner, Heller. Bach Inventions. Sonatas by Mozart, Beethoven, Weber. Songs without Words, Mendelssohn. Pieces by Schumann, Chopin, Schubert, Raff, Grieg, Godard, Chaminade. Memorizing.

Third Year.

Scales in double thirds and sixths. Kullak's Preparatory Octave School. Etudes by Moscheles. English Suites, Bach; Sonatas by Schubert, Weber, Beethoven; Fantasias, Impromptus, etc., by Raff, Mendelssohn, Schubert, Chopin, Schumann; Concertos by Mozart and Mendelssohn. Concert pieces by Rubinstein, Grieg, Moszkowski, MacDowell, Godard, Schytte, Schuett, Sinding. Memorizing.

Fourth Year.

Kullak's Octave School. Clementi's Gradus ad Parnassum. Tausig's Daily Studies. Etudes by Chopin, Henselt, etc. Preludes and Fugues, Bach. Sonatas and Concertos by Beethoven, Chopin, Grieg, MacDowell, Saint-Saëns, etc. Concert pieces by Liszt, Chopin, Schumann, Rachmaninoff, Alkan, Arensky, and other modern composers. Memorizing.

ORGAN.

First Year.

Douglas, Rink and Dunham, Organ Schools.

Buck Pedal Phrasing Studies. Bach, Little Preludes and Fugues. Trios by Rheinberger. Easy pieces by Guilmant, Merkel, Batiste.

Second Year.

Rink and Whiting, Preludes and Postludes. Bach, Preludes and Fugues. Sonatas by Guilmant, Rheinberger, etc. Mendelssohn, Preludes and Fugues. Modern pieces.

Third Year.

Bach Chorales, Preludes and Fugues. Sonatas by Guilmant, Rheinberger, Mendelssohn. Modern pieces.

Fourth Year.

Bach Trios, Preludes and Fugues. Sonatas by Mendelssohn, Rheinberger, etc. Concert pieces by classic and modern composers. Practical work in accompanying church services and oratorios.

VIOLIN.

First Year.

Method or School selected according to age and talent of student. Studies by Hofmann, Wohlfahrt, Hermann. Easy Pieces and Duets by Pleyel, Papini, Dello, Lehman, etc. Particular attention given to correct position, intonation, tone, and bowing.

Second Year.

Continuation of First Year Method. Scale Studies by Schradieck and Blumenstengel. Etudes by Kayser, Dont and Mazas. Simple sonatas. Solos by Leonard, Dancla, Böhm, Demuth, Sitt, Elgar.

Third Year.

Schradieck's School of Technic. Etudes by Kreutzer and Fiorillo. Sonatas by Mozart. Solos by Alard, Drdla, De Beriot, Wieniawski, Danbe.

Fourth Year.

Caprices of Rode. Concertos of Viotti, Rode, De Beriot, Spohr. Solos by Sarasate, Bruch, Dvorák, Vieuxtemps, and modern composers.

VOICE.

The aim of this department is:

I. The establishment of a pure tone in which there shall be resonance, volume, flexibility, and expression. This pure tone is to be acquired by means of perfect breath control, open throat and equalization of registers.

II. A perfect blending of tone and word, which results in the clear-cut enunciation desired by performer and listener.

III. The art of phrasing; versatility in style.

IV. Interpretation of songs, sacred and secular, and arias from oratorios and operas.

First Year.

Tone-Placing, Blending of Registers.—Dr. Edward S. Kimball's Exercises; Henneman's 101 Exercises; Sieber, Op. 92-96.

Flexibility.—Lütgen Exercises in Velocity; Sieber, Op. 42-43; Marzo's Preparatory Course.

Vowel and Consonant Work.—Vaccai Italian Exercises; Sieber, 92-96; "Vowel Songs."

Phrasing.—Concone, Op. 9; Easy songs for application of principles learned.

Second Year.

Marzo, Book I.; Sieber, Op. 45; Marchesi Italian Exercises; Sieber, Op. 30-35; Concone, Op. 10. Songs, sacred and secular, of the older Italian and German composers and of the best modern composers.

Third Year.

Marzo, Art of Vocalization, Books II., III.; Sieber, Op. 30-35; Concone, Op. 12; Study of the classics and arias from oratorios.

Fourth Year.

Bordogni, II., III.; Aprile Exercises. Concert songs from classic and modern composers. Arias from the operas of German, Italian and French Schools.

THEORY AND HISTORY OF MUSIC.

The aim of the courses in these branches of music education is to give the student an intelligent conception of music as a science, aiding him to become a musician capable of understanding and interpreting a wide range of music, and to lay a broad foundation for later studies which he may undertake in the field of composition. This work will be given in classes only. The outline of the course is as follows:

Elementary Theory.

A. Sight-reading; ear-training; elementary Harmony, including the study of intervals, notation and terminology.

Choral.

B. Advanced Sight-reading preparatory to and including the performance of the standard cantatas and oratorios.

Through the year. One hour.

Musical Appreciation.

C. This course will include the study of the principles of musical form, the development of music in its various branches, the stories of the standard oratorios and operas, and some analytical study of the larger instrumental compositions for the piano, violin and orchestra, such as the sonata, overture and symphony. There will be lectures and illustrations. The purpose of the course is to awaken the musical taste, and develop the faculty of listening and hearing intelligently. This course is supplemented by later courses in Musical Form and History.

Through the year. One hour.

Theory.

D. Harmony, first year. Ear-training.

Through the year. Four hours.

Theory.

E. Harmony, second year. Analysis of musical form.

Through the year. Four hours.

Theory and History.

F. Counterpoint. Musical History.

Prerequisite: Courses A and D.

Through the year. Four hours.

PUBLIC SCHOOL MUSIC.

This course provides instruction for those students who wish to become teachers or supervisors of music in the public schools. It may be completed in two years. The outline follows:

In order to enter upon this course, a student should have completed a high school course and have ability to play at sight the average school songs.

First Year.

Course A.—Rudiments of Music, Terminology, Notation and Sight-reading.

Course B.—Advanced sight-reading choral class, including the study of standard cantatas and oratorios.

Course D.—Harmony, first year. Ear-training.

One-half Course F.—Musical History. Voice culture.

Second Year.

Methods of Teaching. Practice Teaching.

Course E.—Harmony, second year. Analysis of Musical Form.

Course C.—Musical Appreciation. Pedagogy. Voice Culture or Piano.

METHODS OF TEACHING.**New Normal Course and Modern Music Series.**

The developing purpose of School Music is the correlation of music with other studies in the school curriculum. Care of the child voice. Correct position of the body. Breathing exercises. Voice placing and development. Relation between the speaking and singing voice. Tonal quality. Monotones and how to help them. General directions for daily use. Rhythm and its study. Beating time. Use of the baton, pendulum and metronome. Tone thinking. Visualizing. How to see with the ear. Individual work. Psychology of Sight-reading. Care of the voice as related to part-singing. Rules for selection of voices for part-singing. Grade outlines with songs for Primary. Intermediate and High Schools. Difficulties of the Supervisor in the High School. Relation of Supervisor to the Superintendent and teachers. Music and its power of discipline. Professional reading.

Observation work in the Schools, Choirs and Choral Club of the city of Ripon. Practice teaching in the classes.

REQUIREMENTS FOR GRADUATION.

Diploma Course.

Candidates for graduation must complete academic work equivalent to a high school course and including the following subjects:

History 2 units, Science 1 unit, Algebra 1 unit, German 2 units, French 1 unit, English 3 units. In addition to these subjects, English 1 is required.

A certificate of entrance credits should be sent in advance, or presented at time of entrance.

Candidates for graduation must give a public recital, during the last year, of each course which they complete.

Degree of Bachelor of Music.

The Board of Trustees of Ripon College now confer the degree of Bachelor of Music upon students who meet the following conditions:

The requirements for entrance are the same as for College entrance. The practical preparatory musical work must be completed to the work of the first year as outlined in the Catalogue. Two courses in practical music must be pursued, one of which must be the piano. The other course may be either organ, violin, or voice, as elected. The student will be required to do three years' work in the Theory and History of Music, and to carry four hours' work in some College subject each semester for the four years it takes for graduation. The Freshman English is required. Beyond that the student may elect his literary work.

DAY PUPILS.

To meet the demands for musical instruction on the part of the residents of Ripon and vicinity, who have no time or desire to take any of the regular courses, or to take studies in the College, the following arrangements may be made: Pupils will be received from their homes, who shall simply report to the teacher for instruction at appointed hours, and have no further connection with the College. Tuition will be the same as for the other students of the College of Music.

Musical activities are planned which will be of interest and profit. The School of Music aims to be a center of the musical life in Ripon. Everything of real value pertaining to the subject of musical education and advancement will be considered and encouraged by the Director.

TUITION AND EXPENSES.

In the matter of expenses, a School of Music in a small city like Ripon has great advantages to offer over those in larger cities. The expenses of living are less, for both teacher and pupil. The best instruction can be given, at prices which could not be afforded in a larger place. The cost of board and room is very reasonable, as compared with prices in many places.

Tuition, per semester, payable in advance.

Two private lessons per week, thirty minutes each:

Piano	\$40.00
Pipe Organ	45.00
Voice	40.00
Violin or Mandolin.....	20.00

One private lesson per week, forty-five minutes:

Violin or Mandolin.....	\$15.00
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Classes in Theory, Musical Appreciation and History, Choral Work.

Course A is open to all students, free of charge.

Course B. This class is open to students of the College, School of Music, and also to citizens of Ripon, who enjoy the study of the Standard Cantatas, Masses or Oratorios.

Course D	\$12.00
Course E	12.00
Course F	12.00
Methods of Teaching Public School Music, in class	10.00

Use of Piano for Practice:

One hour a day, per semester.....	\$4.50
Two hours a day, per semester.....	7.50
Additional hours, each, per semester.....	1.50
Use of the Church organ, for practice, per hour25

A student of the School of Music may take college subjects at the following rate of tuition:

One course will be eight dollars; each additional course at the rate of two dollars for each semester hour of work.

A payment of five dollars on the student's bill is required at the time of registration. This amount will not be refunded.

A fee of \$2.00 for Artists' recitals is charged each music student. This fee covers the price of tickets to all recitals and concerts of the School of Music, except the Oratorio Concerts.

By student vote, a fee of \$4.50 per semester is charged all except day pupils, to cover the following charges: Oratory, subscription to College Days, gymnasium, and ticket admitting to all athletic contests.

Rooms may be rented in the dormitories for from \$18.00 to \$24.00 per semester. Board can be obtained at the Commons for \$3.25 per week. Other boarding places can be found, whose prices are reasonable. All bills for tuition must be paid at the beginning of the semester, or special arrangements made with the Director.

This must be done, and the name registered, before lessons can be assigned. No deduction will be made for absence from lessons except in cases of illness of two weeks or more, when the loss will be shared equally by the School of Music and the student, on the written order of the Director. All non-resident students of the School of Music are subject to the regulations of the College.

MISCELLANEOUS ITEMS.

No prices will be made by the lesson or for any time less than a half semester.

Pupils from out of town may arrange for an hour (private) lesson once a week instead of half hours twice a week.

Pianos for practice can be rented at the School of Music or in the town.

No student of the School of Music will be allowed to take a musical part in any public exercises without permission from his teacher.

Semesters of the School of Music commence with those of the College, and its holidays are the same as those observed by the College.

All persons desiring musical instruction are encouraged in every possible way; graduates and others who have been students of Ripon School of Music will be recommended to fill suitable positions whenever it can be conscientiously done.

Degrees Conferred, June, 1913

HONORARY DOCTOR OF DIVINITY.

John Jones*	Columbus, O.
Arthur Eastman Leonard	Eau Claire
William Barrett Millard	Chicago, Ill.

BACHELOR OF ARTS.

Bert Llewellyn Choate, Business	Fond du Lac
Carl Susan Cragoe, Assistant, Ripon College	Ripon
William Henry Davies, Graduate Student	Princeton University
Rowland Evans, Graduate Student	Theological Seminary
Charles Casey Finnegan, Teacher	Oconto
Lowell Pierce Goodrich, Teacher	Wausau
Louis Encking Graf, Graduate Student	Yale University
Eleanor May Grant, Teacher	Beaver Dam
Carl Fred Hanske, Teacher	Menomonie
Fred Herrmann, Business	Chicago, Ill.
Mae Augusta Holiday, Teacher	Hawkins
Jane Blodwen Jones, Art Student	Milwaukee
Angeline Persis Jones, Teacher	Big Rock, Iowa
Louis Kornder, Graduate Student	University of Chicago
Belle LeClaire, Teacher	Oconto
Charlotta Beatrix Liebman, Teacher	Sharon
William Hinslea Lyon, Teacher	Beaver Dam
Elizabeth Pelagia Meshynski, Teacher	Colby
Thomas Smith Murrish, Teacher	Stevens Point
Alma Helen Nohr, Teacher	Black River Falls
Gordon Francis O'Connor, Teacher	Hastings, Minn.
Edgar Phillip Rosenthal, Teacher	Sparta
Clarence James Rottmann, Graduate Student	University of Wisconsin
Jeanne Roy, Teacher	Milton Junction
Adele Fredericka Schaar, Teacher	Brandon
Robert Albert Shafer, Teacher	Reedsburg
Ida Annette Smith, Teacher	Milton
Ray Albert Sorenson, Business	Ripon
Alfred De Lloyd Sutherland, Teacher	Rosendale
Harry Albert Swartz, Graduate Student	University of Illinois
William Halvor Taylor, Graduate Student	University of Wisconsin
Mary Elvira Weeks, Graduate Student	University of Wisconsin
John E. Williams, Teacher	Ryegate, Mont.

* Deceased.

BACHELOR OF MUSIC.

Florine Mae Weimer.....Coloma, Mich.

CERTIFICATE IN PUBLIC SCHOOL MUSIC.

Nina Marie Faustman.....Ripon

Helen Annette Smith.....Milton

Litta Marie Stone.....Saint James, Minn.

List of Students

GRADUATES.

Harry Mason Comins.....	Ripon
Carl Susan Cragoe.....	Oakfield
William Everett Jillson.....	Ripon

SENIORS.

Ray Morse Atcherson.....	Tomahawk
Hazel Marie Atwood.....	Trempealeau
Lelia Etta Barber.....	Black Earth
Arthur Earl Beauchamp.....	Jacksonville, Ill.
Henrietta Belden	Ripon
Ruth Hazel Brewer.....	Ripon
Olive Marian Burnside.....	Ripon
Donald Wayne Densmoor.....	Markesan
Nathaniel Beach Dexter.....	Ashland
Edward Gerber	Durand
Mary Bernice Gowell.....	Norrie
Eva Ina Holiday.....	Oshkosh
Cora LaVerne Hoppough.....	Smyrna, Mich.
Edgar Thomas Jones.....	Picketts
Irma May Knight.....	Markesan
Shirley Faye Knight.....	Markesan
Clarence Arthur Kopp.....	Eau Claire
Elwyn Busian Krause.....	Ripon
Arthur John Martin.....	Sheboygan
Fred Maynard	Sheboygan
Ruby May Morgan.....	Randolph
Ida Margaretha Pleuss.....	Brandon
Robert Elliott Preston.....	Ripon
Byron James Rock.....	Plymouth
Ruth Lillian Rottmann.....	Ripon
Frank Rueping	Fond du Lac
Ray Edwin Searle.....	Ripon
Edwin Jefferson Smith.....	Belgrade, Minn.
Carol Eloise Sweet.....	Madison
Lester Frank Thomas.....	Beaver Dam
Bernard Thompson	Kilbourn
Ruth Evelyn Van Kirk.....	Ripon
Arthur Henry Wegel.....	Fond du Lac
Lillian Anna Zobel.....	Ripon

JUNIORS.

William Chase Carpenter.....	Plymouth
Jessie DeBoth	Green Bay
Deloraine Keith Dunlap.....	Ripon
Harry Falconer	Pardeeville
Charles Robert Finnegan.....	Lavalle
Milton Herman Hostman.....	Plymouth
Ida Johnson	Phillips
George John Krebs.....	Fort Atkinson
Wilfred Murray Lucas.....	Phillips
Harry John McNicholas.....	Plymouth
Julian Yerkes Malone.....	Jacksonville, Ill.
Clyde Spencer Morgan.....	Oakfield
Bessie Murray	Ripon
Martha Jean Mutch.....	Elroy
Clare O'Donnell	Montello
Clarence Ferdinand Otto.....	Seymour
Frank Joseph Paluka.....	Princeton
Lorraine Peter	Milwaukee
William Hall Preston.....	Ripon
Chester Arthur Shortt.....	Oakfield
Margaret Helen Smith.....	Tomah
Florence Blaine Williams.....	Waupun
William August Zinzow.....	Ripon

SOPHOMORES.

Stella Anderson	Eau Claire
Will Basteen	Tomahawk
Ray Beach	Fort Atkinson
Victor Carl Beck.....	Glenbeulah
Ethel May Callahan.....	Ripon
Clayton James Carey.....	Randolph
Fayette Merrill Coffeen.....	Peebles
Charles De Greef.....	Big Stone City, S. Dak.
Dennis De Munck.....	Plymouth
Anthony Donlin	Mauston
Harold Collins Genter.....	Sheboygan
Forrest Willis Gillette.....	Rosendale
Archibald Hargrave	Ripon
Lynn Gerald Haskin.....	Pardeeville
Archie Lynne Hirst.....	Hancock
John Wallace Hughes.....	Randolph
Thomas Neubern Hughes.....	Rio

Anton Iverson	Tomahawk
Elsa Johnston	Waupun
Lucile Kleiner	Eau Claire
Lyle Nathan Lane.....	Phillips
Hans Christian Larsen.....	Stanley
Henry Lewis	Minneapolis, Minn.
Mildred Lucile Little.....	Ripon
Orlando Steen Loomis.....	Mauston
Robert Crawford McClain.....	Oakfield
Wayne Anthony Marchant.....	Rosendale
Marian Maynard	Sheboygan
Homer Clark Melvin.....	Glenbeulah
Jens Emil Nelson.....	Baldwin
William Eleazer Orvis.....	Oakfield
Richard William Owen.....	Bethesda, N. Wales
Anna Margaret Parker.....	Garden City, Minn.
Doris Helen Potter.....	Neenah
Erwin Ferdinand Reichmuth.....	Ripon
Edward Stephen Roberts.....	Chicago, Ill.
William Edward Roberts.....	Cambria
Carl Parcher Russell.....	Fall River
Maude Schemmel	Cambria
Vernon Fred Selden.....	Lima
Marian Shaw	Scarsdale, N. Y.
Morrison Sims	Brandon
Cora Smith	Ripon
Jennie Talbot	Berlin
Harvey Duane Weidman.....	Reedsburg
Delmer David Wensink.....	Plymouth
Sydney Clarence Wilkie.....	Horicon
Marvin John Williams.....	Oshkosh

FRESHMEN.

Lawrence Adams	Milwaukee
Dora Lucille Akin.....	Willow River, Minn.
Harold Carlyle Baldwin.....	Green Lake
Merlin Herman Bernges.....	Horicon
Otto Birr	Tomah
Rufus Norman Boardman.....	New Richmond
Attabelle Jane Boote.....	Ripon
Arthur Burnett Bradbury.....	Spring Valley, Minn.
Herman Haswell Brien.....	Ripon
Stafford Delos Byrum.....	Plymouth
Howard Christeson	Barron

James Fremont Corbett.....	Plymouth
Ethel Cronkite	Hartford, Mich.
Frances Cujak	Berlin
George Max Dopp.....	Wild Rose
Clarence Frank Du Chateau.....	Green Bay
Miner Roy Egbert.....	Green Lake
Alden Quartermass Ellis.....	Endeavor
Austin Lee Ely.....	Strongs Prairie
Hubert Ernst Fritschel.....	Milwaukee
Emma Johannah Garber.....	Berlin
Florence Ruth Graham.....	Ripon
Maurice Edwin Hopkins.....	Ripon
Lynn Wallace Howard.....	Mondovi
Harold Luke Jillson.....	Ripon
Mary Louise Jillson.....	Ripon
Anna Johnson	Phillips
John Stilwell Jones.....	Hankinson, N. Dak.
William Jones	Randolph
Frederick William Kaestner.....	Plymouth
Dwight Kenyon	Phillips
Victor Mueller Kolberg.....	Sheboygan
Mabel Edith Kramer.....	Fond du Lac
Walter Wesley Krebs.....	Rush Lake
Alfred Kuebler	Oshkosh
Frank Martin George Luecke.....	Plymouth
William Joseph MacNeill.....	Kaukauna
Claude Robert Mason.....	Savanna, Ill.
Joe Nathan Moon.....	Rosendale
David Maldwin Morgan.....	Cambria
Lutie Parker	Tomahawk
Wayne Carl Plummer.....	Eau Claire
Tom Ross	Sheboygan
Shirley Marian Rottmann.....	Ripon
Maude Millicent Russell.....	Ripon
Florence Magdalene Shaw.....	Berlin
James Lincoln Strong.....	Kensington, Kans.
Ruth Tasche	Sheboygan
Glen Harold Taylor.....	Durand
Aimee Jeanette Vandervelde.....	Brandon
Hubert Grant Weidman.....	Reedsburg
William Theodore Wendt.....	Berlin
Abram Parker Williams.....	New Richmond
John Jay Williams.....	Berlin
Earl Wyman	Oshkosh
Julius Herman Zobel.....	Ripon

SPECIAL.

Special students are those who have met the full college entrance requirements, but are registered in less than twelve hours of college work.

Helen Louise Barnum.....	Clintonville
Alma Marie Berger.....	Two Rivers
Ethel Lillian Bryan.....	Ripon
Mary Edith Butler.....	Montello
Edythe West Currie.....	Milwaukee
Mabel Lucile Krebs.....	Ripon
Ruth Marian Murray.....	Roberts
Minnie Ellena Peterson.....	Spalding, Mich.
Jennie Isabel Safford.....	Omro
Irene Elsie Smith.....	Brandon
Helen Louise Sniffen.....	Spring Valley, N. Y.

SCHOOL OF MUSIC.

Ethel Claire Addington.....	Osage, Iowa
Max Alberts	Berlin
Clara Anderson	Winneconne
Marguerite Baird	Green Lake
Helen Louise Barnum.....	Clintonville
Grace Bennett	Fond du Lac
Alma Berger	Two Rivers
Edward Boese	Ripon
Mrs. H. G. Brown.....	Green Lake
Ruth Hazel Brewer.....	Ripon
Ethel Lillian Bryan.....	Ripon
Mary Edith Butler.....	Montello
Mrs. T. L. Carter.....	Ripon
Mabel Marguerite Cease.....	Ripon
Jean Christie	Berlin
Charlotte Clement	Berlin
Edythe West Currie.....	Milwaukee
Pearl Davison	Ripon
Mrs. George Diedrich.....	Ripon
Deloraine Keith Dunlap.....	Ripon
Florence DuVall	Ripon
Mrs. Bertha Grantvedt.....	Ripon
Catherine Hargrave	Ripon
Marie Harkes	Coal City, Ill.
Agnes Heaney	Berlin
Elnora Hill	Ripon
Anna Hill	Rosendale

Merle Hockenberry	Ripon
Gertrude Holt	Columbus
Louise Thelma Horton	Berlin
Anna Belle Hutchinson	Ripon
Evalyn Johnson	Ripon
Clara Kaiser	Ripon
Mary Kaiser	Ripon
Mabel Lucile Krebs	Ripon
Harry Kroll	Ripon
Ethel Luella Knutzen	Ripon
Russell Lincoln	Ripon
Wilfred Murray Lucas	Phillips
Frederic Lueck	Ripon
Ella Luedtke	Markesan
Audrey Mahon	Ripon
Ruth Marion Murray	Roberts
Viola Nohr	Ripon
Agnes Page	Ripon
Anna Margaret Parker	Garden City, Minn.
Marcella Pedrick	Ripon
Minnie Ellena Peterson	Spalding, Mich.
Edna Pinkerton	Brandon
Ethel Pinkerton	Waupun
Louis Pomeraning	Ripon
Robert Elliott Preston	Ripon
William Hall Preston	Ripon
Eunice Pynch	Ripon
Mae Eunice Reas	Spencer
Robert Reed	Ripon
Louise Reichmuth	Ripon
Edna Rieman	Ripon
Ella Russell	Berlin
Jennie Isabelle Safford	Omro
Frances Luella Savage	Brandon
Maude Schemmel	Cambria
Hazel Scovel	Plainfield
Morrison Sims	Brandon
Viola Shave	Ripon
Edna B. Smith	Oshkosh
Irene Elsie Smith	Brandon
Margaret Helen Smith	Tomah
Helen Louise Sniffen	Spring Valley, N. Y.
Francis Milo Spencer	Green Lake
James Lincoln Strong	Kensington, Kans.
Mrs. Alida Pierce Stuart	Ripon

Linda Tabbert	Ripon
Leona Teske	Princeton
Louise Stanton Thomas.....	Ripon
Florence Whiting	Berlin
Clara Zobel	Ripon
Lillian Zobel	Ripon

Summary of Attendance

	Men	Women	Total
Graduates	3	..	3
Seniors	18	16	34
Juniors	16	7	23
Sophomores	36	12	48
Freshmen	42	14	56
Unclassified	11	11
	<hr/>	<hr/>	<hr/>
Total	115	49	164
	<hr/>	<hr/>	<hr/>
Music	12	66	78
	<hr/>	<hr/>	<hr/>
	127	115	242
Names counted twice.....	5	15	20
	<hr/>	<hr/>	<hr/>
Corrected Total	122	100	222

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UNIVERSITY OF ILLINOIS-URBANA



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